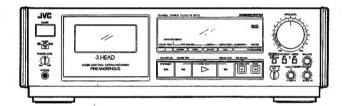


JVC

SERVICE MANUAL

STEREO CASSETTE DECK

TD-V1050 A/B/C/E/G/J



Area suffix

Α	Australia	
В	UK	
C	Canada	
E	Continental E	urope
G	Germany	
J	U.S.A.	

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FEATURES

1. Pure and direct design with 3-head mechanism

- Closed-loop dual-capstan mechanism
- Pulse servo capstan D.D. (direct drive) system
- Record/playback head (Fine Amorphous) + Erase head (2-Gap Ferrite)
- PCOCC (Pure Copper by Ohno Continuous Casting) head winding wire for the superior signal transmission
- 2 pairs of line input jacks including CD direct input
- High bias frequency of 210 kHz for improved recording
- FET differential input, high-S/N headamplifier

2. Uni base minimizes vibration

- Cassette shell stabilizer minimizes vibrations.
- 3. Electrically driven cassette holder
- 4. Dolby* HX PRO headroom extension
- 5. Dolby B/C noise reduction systems
- Caribration function for according to the characteristics of indivisual tapes
 - Recording bias and level can be adjusted (built-in oscillator).

7. Multi-function buttons

 It is possible to find out the tape remaining time or to locate the recoring start position.

8. Other features

- Music Scan
 "Under license from Staar S.A., Brussels Belgium"
- DISPLAY ON/OFF button
- 4 digit linear counter/digital peak level and level meter display
- Auto monitor
- Auto tape select mechanism
- Wireless remote control for operational convenience.

9. Timer start mechanism

10. DDRP (Dynamics Detection Recording Processor)

With the DDRP function, the recording level is adjusted automatically so that recording is performed in optimum condition.

11. COMPU LINK-1/SYNCHRO terminal

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

Olufsen.
"Dolby", the double-D symbol III and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Safety Precautions

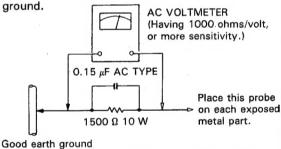
- 1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer or responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by (A) on the schematic diagram and Parts List in Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List in Service Manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
 - When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage current check (Electrical shock hazard testing) After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.
 - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
 - Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).



Warning

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are mainteined.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

SELECTING THE AC SUPPLY VOLTAGE

(A/B/E/G version only)

The C/J version is not provided with voltage selector.

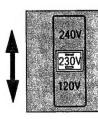
When this deck is used in an area where the supply voltage is different from the preset voltage, reset the voltage selector to the correct position.

Slide the voltage selector with a screwdriver so that the desired voltage marking is in the window.

Caution:

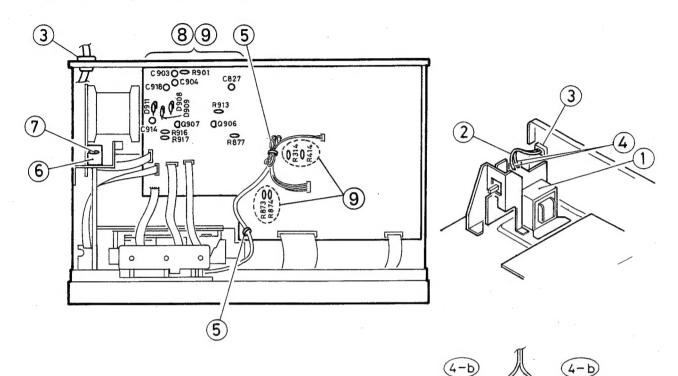
Disconnect supply cord before changing the voltage.

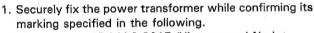
A/B/E/G Version



■ Safety Precautions about TD-V1050

■ Important Management Points Regarding Safety (Items Demanding special safety precautions)





J version : BD14A9-0017 (UL approved No.)

C version : VTP57A9-021B B/E/A/G : VTP57H9-011B

2. Confirm the marking of the power cord and the plug.

Suffix	В	E/G	Α	C/J
POWER CORD	BASS BS6500	⊲ VDE ⊳	LTSA-2F	SPT-2
POWER CORD PLUG		S	KP-560	KP-10

3. Install the cord bushing by the specified tool while confirming the marking.

Bushion : NIFCO 2271

- a) When installing the power cord, wind it around the terminal by the end before soldering.
 - b) Arrange the wires while binding them nearby the terminal.
- When arranging every wire and cable, avoid the active power parts, mobiles, heat generating parts, sharpedged parts etc.
- 6. Confirmation of the marking "M7" of the power switch.
- Marking of spark killer capacitor.

J: (R))

Confirm B/E/G: RME265MB510.

For C903, C904, C914, C827, C918, make sure to use the speicified part of the following rating.

C903/C904 : 3300 μ F/25 V C914 : 330 μ F/25 V C827 : 100 μ F/25 V C918 : 2200 μ F/25 V

- Since the following parts are heat generating ones, they must not contact with electrolytic capacitors, wires, etc.
 - Parts in parentheses () are inflammables. Make sure of their lift-up condition for this purpose.
 - Parts in box _____ are out of JVC control.

(R901) (R913) (R917) (R314) (R414)

(R877) (R916)

R873 R874 Q906 Q907 D911 D908 R909

R902, R913, R301, R401, R831, R832, R808

R809, R816, R817

Q903, Q905

D901, D902, D903, D904, D912, D716

SPECIFICATIONS

(A/C/J-Version)

Stereo cassette deck 4-track, 2-channel 4.8cm/sec. Type Track system Tape speed 4.0011/590. (1-7/8 inch/sec.) (-20 dB recording) Type IV tape; 10 - 23,000 Hz Frequency response 15 - 21,000 Hz (± 3 dB) Type II tape; 10 - 21,000 Hz 15 - 19,000 Hz (± 3 dB) Type I tape; 1ype I tape; 10 - 21,000 Hz 15 - 19,000 Hz (± 3 dB) :61 dB (S = 315 Hz, k3 = 3 %, N = A-weighted, Type IV tape) The S/N is improved by about 15 dB at 500 Hz and by may 20 dB S/N ratio by about 15 db at 500 Hz and by max. 20 dB at 1 kHz ~ 10 kHz with Dolby C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with DOLBY B NR on. 24 dB at 10 kHz with Dolby C NR on. 0.022 % (WRMS) 40 dB (1 kHz) 65 dB (1 kHz) k3; 0.6% (Type IV tape, 315 Hz, 0 VU) Improvement of MÓL Wow and flutter Channel separation Crosstalk Harmonic distortion Heads Record (amorphous) × 1, Playback $(amorphous) \times 1,$ Erase(2-gap ferrite) × 1 Pulse servo DD motor Motors for capstan × 1 DC motor for reel × DC motor for mechanism drive × 1 Approx. 100 sec. with C-60 cassette Fast forward/Rewind time Input terminals CD DIRECT : Min. Input level; 80 mV (0 VU) Input impedance; (x 1 circuit) : Input sensitivity; 80 mV (0 VU) Input impedance; LINE IN (x 1 circuit) 50 kΩ Output terminals LINE OUT Output level; 300 mV (0VU) Output impedance; (x 1 circuit) 5 kQ : Output level; Headphones × 1 $0 \sim 1 \text{ mW/8} \Omega (0 \text{ VU})$ Matching impedance $8 \Omega - 1 k\Omega$ Other terminals : COMPU LINK-1/ SYN-CHRO × 2 Power requirement : AC 240/230/120 V, A version 50/60 Hz AC 120V, 60 Hz C/J version Power consumption **Dimensions** : 452 × 143 × 335 mm (17-13/16 "× 5-11/16" × $(W \times H \times D)$ 13-1/4") 7.7 kg (17.0 lbs.) Weight Accessories : Pin plug cord × 2 Remote cable × 1
Remote control × 1 Battery (AA/R6) ×2

Design and specifications are subject to

SPECIFICATIONS

(B-version)

Stereo cassette deck Type Track system 4-track, 2-channel Tape speed 4 8cm/sec (-20 dB recording) Frequency response Type IV tape; 15 - 21,000 Hz (± 3 dB) Type II tape 15 - 19,000 Hz(± 3 dB) Type I tape 15 - 19 000 15 - 19,000 Hz (± 3 dB) : 61 dB (S = 315 Hz, k3 = 3 %, N = A-weight-ed, Type IV tape) The S/N is improved by about 15 dB at 500 S/N ratio Hz and by max. 20 dB at 1 kHz ~ 10 kHz with Dolby C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with above 5 kHz w
DOLBY B NR on.

4 dB at 10 kHz with
Dolby C NR on.

±0.065 % (DIN/IEC)

40 dB (1 kHz) Improvement of MOL Wow and flutter Channel separation 65 dB (1 kHz) k3; 0.6% (Type IV tape, 1 kHz, 0 VU) Crosstalk Harmonic distortion Record Heads (amorphous) × 1, Playback $(amorphous) \times 1,$ Erase (2-gap ferrite) × : Pulse servo direct drive motor for capstan × 1 Motors DC motor for reel × 1 DC motor for mechanism drive × 1 Approx. 100 sec. with C-60 cassette Fast forward/Rewind time Input terminals CD DIRECT : Input sensitivity; 80 mV (0 VU) Input impedance; (x 1 circuit) Input sensitivity; 80 mV (0 VU) Input impedance; 50 k Ω LINE IN (x 1 circuit) Output terminals LINE OUT Output level; 300 mV (0VU) Output impedance; (x 1 circuit) 5 kΩ PHONES × 1 : Output level; $0 \sim 1 \text{ mW/8} \Omega (0 \text{ VU})$ Matching impedance; $8\Omega - 1 k\Omega$ COMPULINK-1/SYN-Other terminals CHRO × 2 : AC 240/230/120 V, Power requirement: 50/60 Hz :21 W Power consumption Dimensions $(W \times H \times D)$ Weight 452 × 143 × 335 mm 7.7 kg : Pin plug cord × 2 Accessories Remote cable × 1 Remote control × 1

Design and specifications are subject to change without notice.

Battery (AA/R6) × 2

change without notice.

TECHNISCHE DATEN

(G-Version)

CARACTERISTIQUES TECHNIQUES (Version E)

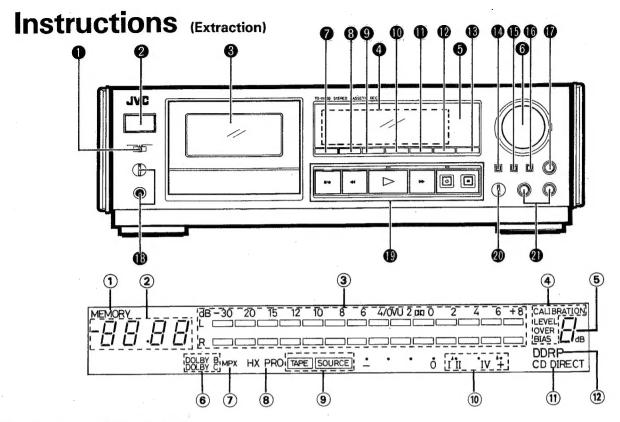
_/ /	Stereo-Cassettendack	Туре :	Platine d'enregistre-	Ac
Bandgeschwindigkeit:	4-Spur, 2-Kanal 4,8 cm/Sek.		ment stéréo 4 pistes, 2 canaux	
Frequenzgang :	(–20 dB-Aufnahme) Type IV band;	Vitesse de défilement : Réponse en	(Enregistrement à - 20	
	10 23.000 Hz (DIN) 15 21.000 Hz (±3 dB)	fréquence	dB) Bande "Type IV";	
	Type II band;		10 à 23.000 Hz (DIN)	Pr
	10 - 21.000 Hz (DIN)		15 à 21.000 Hz (± 3 dB)	sa
	15 – 19.000 Hz (±3 dB) Type I band;		Bande "Type II"; 10 à 21.000 Hz (DIN)	
	10 - 21.000 Hz (DIN)		15 à 19.000 Hz (±3 dB)	
Olassat Davischahotopid	15 – 19.000 Hz (±3 dB)		Bande "Type I";	
Signal-Rauschabstand	k3=3%, N=A-gewichtige,		10 à 21.000 Hz (DIN) 15 à 19.000 Hz (±3 dB)	
	Type IV band)	Rapport signal/Bruit :	61 dB (S=315 Hz, K3	
	Der Signal-Rauschab- stand ist um 15 dB bei		= 3%, N=A-ponderé,	
	500 Hz und um max.		Bande "Type IV") Le rapport S/B est	
	20 dB bei 1 kHz ~		amélioré de 15 dB	
	10 kHz mit einge- schalteter Dolby C		environ á 500 Hz et	
	NR verbessert und um		de 20 dB maximum à 1 kHz-10 kHz avec le	
	5 dB bei 1 kHz und um		Dolby C NR en circuit,	
	10 dB über 5 kHz mit eingeschalteter		et amélioré de 5 dB à 1 kHz et 10 dB envi-	
	Dolby B NR.		ron à 5 kHz avec le	
	4 dB bei 10 kHz mit		Dolby B NR en circuit.	
Höchstausgangs- pegels	eingeschalteter DOLBY C NR.		4 dB à 10 kHz avec le Dolby C NR en circuit.	
Gleichlaufschwan-	5025, 0	Pleurage et scientille-:		
	±0,065% (DIN/IEC)	ment		
Kanaltrennung : Übersprechdämpfung :	40 dB (1 kHz) 65 dB (1 kHz)	Séparation des canaux: Diaphonie :	65 dB (1 kHz)	
Klirrfaktor :	K3; 0,6%	Distorsion harmonique	:K3; 0,6 % (bande	
	(Type IV band, 315 Hz, 0 VU)		"Type IV", 315 Hz 0 VU)	
Köpfe :	Amorpher-Aufnahme-	Tétes :	Enregistrement	
•	kopfx 1,		(amorphe) × 1,	
	Amorpher- Wiedergabekopf × 1,		Lecture (amorphe) × 1,	
	2-Spalt-ferrit-		Effacement	
Motoren :	Löschkopf × 1 Impuls-Servo	Moteurs :	(ferrite 2 entrefers) × 1 Moteur a commande	
Wiotoreri	Direktantriebs motor	wioteurs .	directe d'asservisse-	
	für Capstan × 1, Gleichstrommotor für		ment par impulsions	
	Gleichstrommotor für Wickelspule × 1		× 1 Moteur CC pour bobine	
	Gleichstrommotor für		×1	
Schnellvorlaufzeit/	Laufwerk × 1 : Ca. 100 Sekunden (C-		Moteur CC pour l'en- trainement mechanique	
Rückspulzeit	60 Cassette)		×1	
Eingänge CD DIRECT			Environ 100 secondes, avec une cassette C-60	
	: Eingangspegel;	rapide/Temps de réembobinage	avec une casselle C-00	
,	80 mV (0 VU)	Bornes d'entrée		
	Eingangsimpedanz; 50 kΩ	CD DIRECT (× 1 circuit) :	Sensibilite d'entrée:	
	: Eingangspegel;	(X 1 Official)	80 mV (0 VU)	
(×1 Schaltung)	80 mV (0 VU) Eingangsimpedanz;		Impédance d'entrée; 50 kΩ	
	50 kΩ	LINE IN :	Sensibilite d'entrée;	
Ausgange	· Augananania 200 mV	(x 1 circuit)	80 mV (0 VU)	
LIÑE ÔUT (x 1 Schaltung)	: Ausgangspegel; 300 mV (0 VU)		Impédance d'entrée; 50 kΩ	
(**************************************	Ausgangsimpedanz;	Borne de sortie		
PHONES × 1	5 kΩ : Ausgangspegel;	LINE OUT	. Altreau de esitier 000	
THORLOW	0 ~ 1 mW/8 Ω (0 VU)	(x 1 circuit)	: Niveau de sortie; 300 mV (0 VU)	
	Geeignete Impedanz; 8 Ω - 1 kΩ		Impédance de sortie;	
Weitere Anschlüsse	: COMPU LINK-1 /SYN-		5 kΩ	
	CHRO × 2	PHONES × 1	Niveau de sortie;	
Spannungsversorgung	: Netz 240/230/120 V _50/60 Hz		0 ~ 1 mW/8 Ω (0 VU) Impédance caractéris-	
Leistungsaufnahme	: 21 W		tique: $8 \Omega - 1 k\Omega$	
Abmessungen		Autres prises	: COMPU LINK-1/	
$(B \times H \times T)$: 452 × 143 × 335 mm	Alimontation	SYNCHRO × 2	
Gewicht · Zubehör	: 7,7 kg : Cinchkabel2	Alimentation	: 240/230/120 V CA, 50/60 Hz	
Zubelioi	Fernbedienkabel1	Consommation	: 21 W	
	Fernbedienung1	Dimensions	450 475 55-	
	Batterie (R6/AA)2	(: 452 × 143 × 335 mm : 7,7 kg	
		i Ulua	1 1 1 PM	

Poids

: 7,7 kg

: Câble à broches......2 Câble de Accessoires télécommande.....1 Télécommande.....1 Pile (R6/AA).....2

Présentation et caractéristiques modifiables ans préavis



NAMES OF PARTS AND THEIR FUNCTIONS

TIMER switch

When an optional timer is used, recording and playback can be performed at any desired time.

- PÓWER switch
- Cassette holder
- MULTI MODE display
 - 1 MEMORY Indicator
 - 2 Tape counter indicator
 - 3 PEAK LEVEL METER

0 dB: IEC (DIN) STANDARD LEVEL (250 nWb/m)

Ò VU: EIAJ STANDARD LEVEL (160 nWb/m)

II : DOLBY NR STANDARD LEVEL

- (4) CALIBRATION indicator
- 5 Digital peak indicator
- 6 DOLBY NR mode indicator
- MPX filter indicator
- 8 HX PRO indicator
- 9 Monitor indicator
- (II) Tape types and recording guide indicators
- (1) CD DIRECT input indicator
- 12 DDRP indicator
- **6** REMOTE SENSOR
- **6** INPUT LEVEL control
 - Adjust the recording level with this control.

 TIME/LOCATE button

It is able to find the tape remaining time, locate the start of a recording, and do other things, using together with cassette

operation buttons.

MEMORY button

RESET button

Press to reset the tape counter to "0.00".

10 DISPLAY ON/OFF button

CALL button (Digital peak)

Press to call up the stored (memorized) maximum value or to reset the memory.

CALIBRATION button

® MONITOR button

When this button is pressed, it changes between source monitoring and tape monitoring.

CD DIRECT switch

ON: Press this switch to set to ON when recording directly from a CD player.

OFF/LINE: Press this switch to set to OFF/LINE when recording from a stereo amplifier.

MPX FILTER switch

When an FM stereo broadcast is to be recorded using Dolby NR, set this to ON to prevent the Doiby NR circuit from malfunctioning (otherwise the sound quality could deteriorate.)

Dolby HX PRO switch

Used to record sources which contain many high frequency components.

BALANCE control

Adjusts the balance between the signals input via the left and right LINE IN jacks.

PHONES jack and PHONES LEVEL control

Connect headphones (with an impedance of 8 Ω to 1 k Ω).

Cassette operation buttons and lamps (▷ and ○ buttons)

- / A STOP/EJECT: Press to stop the tape. Pressing this button after the tape stops, opens the cassette holder.
- (rewind) button: Press to rewind the tape.
- (play) :Press to start recording or playback.

Press this button with either the ◀ or ▶ button for music scanning.

▶► (fast forward) button: Press to fast forward the tape.

O REC/REC MUTE: Press the ▷ (play) button while pressing this button to start recording, and press to leave an appropriate non-recorded section.

PAUSE: Press to stop the tape temporarily during recording and playback.

Press the ▷ (play) button to release the pause mode.

When pressed together with the O REC/REC MUTE button before recording, the unit will enter the record-pause mode.

DOLBY NR switch

Set to B or C for recording using the Dolby NR system or for playing back a tape that was recorded using the Dolby NR system.

Set to OFF when the Dolby NR system is not used.

CALIBRATION controls

To adjust the recording bias and sensitivity according to the tape to be used. If adjustment is not performed, set to the center position.

REMOTE CONTROL OPERATIONS

Correct use of the remote control

- · Press the button (s) while pointing the top of the remote control unit at the remote sensor on the front panel of the main unit.
- The operable range is about 7 meters (aprox. 23 ft) away from the main unit. If operated at an angle, the range will be shorter.
- Do not allow direct sunlight or strong light from a fluorescent light, etc. to strike the remote sensor, do not place anything between the remote control and remote sensor. (The remote control may not work.)

CASSETTE EJECT button

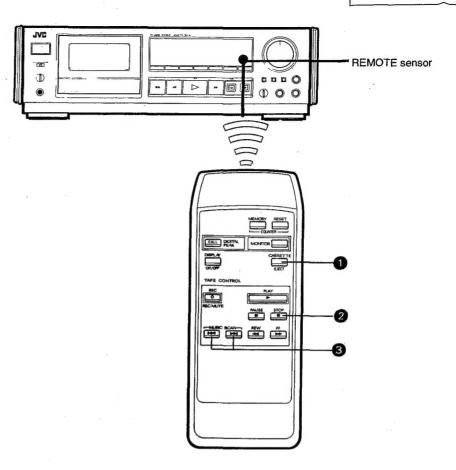
Press this button to open and close the cassette holder. During recording, the button does not work.

② ■ STOP button

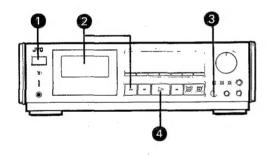
Press this button to stop the tape. (The cassette holder cannot be opened.)

During music scanning, press this button to find the start of a piece of music.

* Other control buttons have the same functions as those on the front panel of the main unit.



PLAYBACK

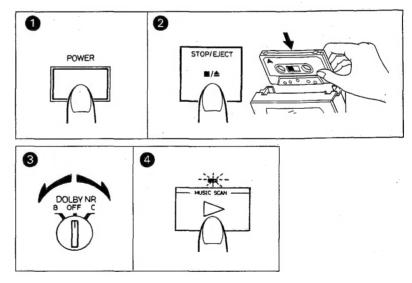


Operate in the order of the numbers in the illustration.

- Press the POWER switch to set to ON ().
- 2 Load a prerecorded cassette.
- 3 Set the DOLBY NR switch to the same position as when the tape was recorded.
- Press the > (play) button to start playback.
 - · It changes to the tape monitor mode automatically and "TAPE" will appear on
 - To stop playing back midway.....Press the / ▲ STOP/EJECT button.

Automatic slack tape removal operation:

When a cassette is inserted, slack tape will be taken up automatically. This will also happen if the power is switched on with a tape loaded.



Tape counter display

When the tape runs, the counter functions as 4 digit linear tape counter. With a C-46L, C-60, or C-90 cassette, the approximate running time is displayed in minutes and seconds (count down function included). There may be up to a one-minute discrepancy between the actual running time and the displayed time. With a C-30, C-46, or C-80 cassette, the discrepancy may be greater. And even if used cassettes having the same playing time, different times may be displayed because of different tape thicknesses.

Music scan

The music scan mechanism functions by detecting non-recorded sections between tunes. The lengths of non-recorded sections should be more than 4-5 sec for Music Scan to be effective.

- Press the ▷ (play) and ◄ (or ►►) buttons simultaneously.
 - During scanning, the lamp of ▷ (play) button flashes rapidly.
- When a non-recorded section is detected, playback starts automatically.

Notes:

In the following cases, the mechanism may not operate correctly. This is not a malfunction; use the mechanism according to the type of program.

- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes
- Tapes with short non-recorded sections
- · Tape with noise or hum between tunes

Memory button

Press the MEMORY button at the point to which you want the tape to be rewound and from which you want to listen to during recording or playback.

The tape stops automatically at the point where the MEMORY button is pressed in either the fast forward or rewind mode.

- The point where the MEMORY button is pressed is stored during any mode (recording, playback or stop), but the memory function (automatic stop) operates only in the fast forward or rewind mode.
- If pressing the memory button again, the memory will be cleared. It will also be cleared if pressed the RESET button and reset the counter to "0.00".

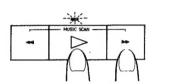
To set the counter to "0.00".

Press the RESET button. (The counter is also reset when the power is switched off and on again.)

To clear indication in the DISPLAY window... press the DISPLAY ON/OFF button, and the digital noise from the DISPLAY window is reduced. If the button is pressed again, the indication reappears.

 Press the DISPLAY ON/OFF button to turn off the display. Although the display will come back on if the mode changes to Fast Forward, Rewind, Pause, or Stop (except for Recording and Playback).

 Even when the display is turned off, the tape counter, meter and digital peak indicator will continue to operate. It is also possible to check these contents after recording or playback have ended.

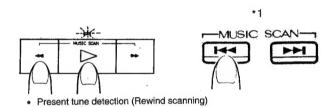


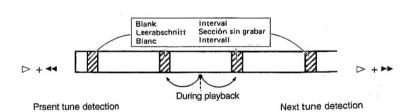


*1

Next tune detection (Fast forward scanning)

*1 Using the remote control.



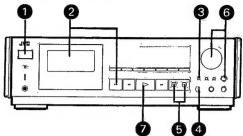


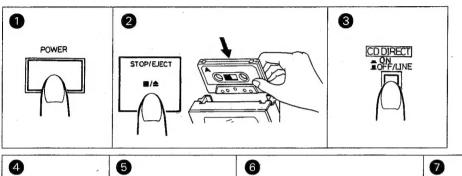
RECORDING

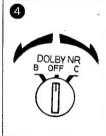
Operate in the order of the numbers in the illustration.

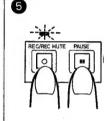
- · Set the TIMER switch to OFF before switching the power on.
- Make sure the safety tab of the cassette has not been broken off.

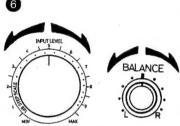
· Manual recording













- Press the POWER switch to set to ON ().
- Load a cassette for recording.
- Select the recording input.
- Set the DOLBY NR switch as required.
- Press the # PAUSE button and O REC/REC MUTE button at the same time (record-pause mode). The REC lamp lights.
- 6 Adjust the recording level and balance. (See page 33.) The BALANCE control only works with line input.

- Press the ▷ (play) button to start recording.
 - It changes to the tape monitor mode automatically and "TAPE" will appear on the display.

WARNING

It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.

DDRP (Dynamics Detection Recording Processor) recording

- DDRP recording is performed with suitable JVC CD players and the recording level adjustment is performed automatically.
- Since recording level adjustment is performed automatically for different types of tape (normal, CrO₂ and metal), the adjust-ment of INPUT LEVEL and BALANCE controls are not required.
- Read the instruction book of your CD player carefully.

DOLBY NR and DOLBY HX-PRO switches

Dolby NR System

To reduce the hiss inherent in tape recording, use the Dolby NR System when making recordings. When listening to a tape recorded with the Dolby NR System, set the DOLBY NR switch to B or C according to the system selected in the recording mode.

The sound quality will change if the positions of the DOLBY NR switch are different in recording and playback.

Dolby HX PRO headroom extension

When a source which contains many high-frequency components is recorded, these high-frequency signals have the same function as bias and therefore, the effective bias current changes. This will result in phenomena such as changes in the level of low-frequency signal and subsequent distortion and reduction of the high-frequency saturation level

Dolby HX PRO headroom extension system controls the bias current so that the effective bias is constant even when there are fluctuations in the high-frequency components of the input signal.

This greatly improves the high-frequency saturation level while reducing the low-frequency signal level variations and distortion.

- The dynamic sound recorded with this system sounds the same even when the tape is played back in a deck that does not have Dolby HX PRO.
- This system automatically works when in recording; however, Dolby HX PRO is not a noise reduction system.

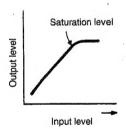
DIGITAL PEAK indicator and its use in recording level adjustment

It is best to adjust so that the maximum sound level of the source to be recorded reaches the very limit of the saturation level of the tape to be used.

- When the recording level is too low, the hiss noise inherent in the tape will be conspicuous.
- When the recording level is too high, exceeding the saturation level, the recording will contain cracking noise and will be distorted.

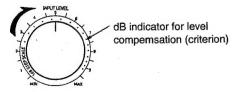
Saturation level means:

When the recording input is increased gradually, the output increases proportionally. However, once it reaches a certain level, the output cannot increase any further. Moreover, the output will be distorted if the input is increased beyond this point. The level at which this occurs is called the tape's "saturation level".



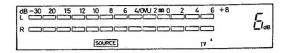
How to adjust the recording level

- 1) Set to the source mode (record-pause).
- Adjust the recording level using the INPUT LEVEL control.



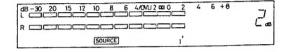
With metal tape

Because of metal tape's higher saturation level, it is OK that "+ 6" lights occasionally.



With normal or chrome tape

It is OK that "+ 2" lights occasionally.



Digital Peak Indicator

This is a digital display that shows the recording/playback level and is interlocked with the peak level meter under the control of the meter microcomputer. A maximum peak level memory function is provided so that the peak level can be checked after as well as during recording.

For 0 dB and under:

For +8 dB and over:

OVER $\boldsymbol{B}_{\mathsf{dE}}$

Calling up the maximum level and resetting the memory

When the digital peak "CALL" button is pressed once, the peak level held in memory flickers in the display for approximately 5 seconds. If the CALL button is pressed again while the peak value is displayed, the previous contents of memory will be cleared and this newly input maximum level will be held in memory as the peak level.

In addition, the digital peak function holds the level of whichever of the left or right channels is the higher and displays it.

Calibration operation

There are various types of cassette tapes, and their characteristics differ slightly even when they are of the same type.

Generally, the bias current and equalization characteristics suitable for the type of tape being used can be obtained by the Auto Tape Select system.

However, to optimize the response of the tape to be used, it is better to adjust the recording bias so that distortion is minimized and the frequency characteristics are as flat as possible.

When recording using Dolby NR, the recording and playback levels should be matched to achive the best Dolby NR effect.



How to adjust

Adjust the bias current to compensate for the tape sensitivity while recording the test tone.

1. Press the ⊳ button while pressing the CALIBRATION button.

The meter changes to calibration mode and the test tone recorded.

- 2. Adjust the BIAS control so that the upper and lower meters show the same level.
- 3. Adjust the level control that the upper and lower meters show "0"
- 4. Press the ■/▲ STOP/EJECT button to stop the tape.

The level meter works when the -/-STOP/EJECT button is pressed, this is not a mulfunction.

The optimum bias is set and the tape sensitivity is compensated for by the above procedures. To start recording, rewind the tape and erase the test tone.

Notes:

- When using metal tape, the change in the frequency characteristic when the bias con-trol is adjusted is small compared with the change when using normal- or high-position tape. The optimum bias may not be obtained within adjusting range (±20%) of this deck due to tape characteristic differ-
- · During calibration, monitoring is impossible regardless of whether the monitor mode is set to "tape" or "source"
- The tape cannot be returned to the record pressing position by TIME/LOCATE button.

Erasing

When recording on a prerecorded tape, the previous recording is automatically erased and only the new program is recorded on the tape. To erase a tape without making a new recording... Follow the section "RECORD-ING" but in step 6, set the INPUT LEVEL control to MIN.

Automatic record muting

This facility is used to eliminate undesired sections and leave an appropriate nonrecorded section.

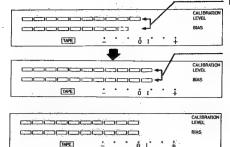
A. To leave non-recorded sections of about 4-5 seconds automatically

- When the undesired section comes during recording, press the O REC/REC MUTE button and release it.
- The REC button lamp flashes and nonrecorded section is made
 - About 4 5 seconds later, the tape automatically stops, and the unit enters the record-pause mode.
- Press the
 play button to restart recording.

B. To leave non-recorded sections of more than 4-5 seconds

- Keep the O REC/REC MUTE button pressed continuously as long as you want to make a non-recorded section. By releasing the finger from the button after the above operation, the unit enters the record-pause mode.
- 2 Press the ▷ (play) button to restart recording.





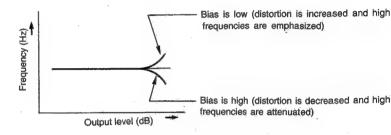
Meter for the calibration

Adjust to give the same level on the upper and lower meters.

When the bias is low (80% position) or high (120% position), the frequency response is as shown in the right dia-

gram. die Vormagnetisierung niedrig Position) oder hoch (120%-Wenn (80%-Position)

Position) ist, ist der Frequenzgang wie im Diagramm rechts dargestellt. Quand la polarisation est basse (position 80%) ou haute (position 120%), la réponse de freequence est comme indiqué sur le diagramme de la droite.



C. To leave non-recorded section of less than 4 seconds

- When the undesired section comes during recording.... After the O REC/REC MUTE button is pressed, press the PLAY button before the unit enters the pause mode to start recording again, or press the III PAUSE button to enter the record-pause mode.
- The PEAK LEVEL INDICATOR lights even during record muting according to the input level which can be heard from the speakers or headphones so that recording can be resumed at the exact point on the tape.

Automatic record muting using the remote control unit

When the O REC/REC MUTE button is pressed a non-recorded section of approx. 4 seconds is automatically left and the deck enters the record-pause mode. Even if you continue to press the button, th ecorded section will not be longer than 4 seconds.

MONITOR button

Since the unit is a three-head deck with separate record, play and erase heads, the sound from the source can easily be compared with that recorded on the tape by switching this button.

A. Source monitoring

Press the MONITOR button to indicate "SOURCE" in the display to monitor the sound from the source. The PEAK LEVEL METER and DIGITAL PEAK indicators show the level of the input signal; adjust the recording level while monitoring the source.

B. Tape monitoringPress the MONITOR button to indicate "TAPE" in the display to monitor the signal picked up by the play head after it has been recorded on the tape. In this way, you can check whether it has deteriorated because of dirt on the head, etc.

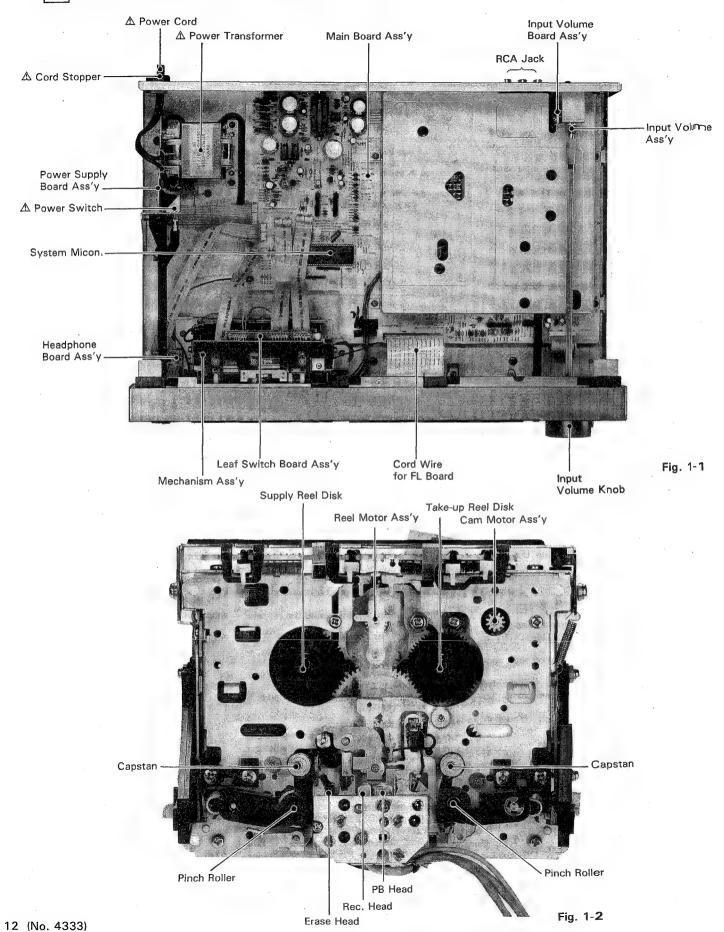
This unit automatically enters the source monitor mode when the record-pause mode is engaged, and the tape monitor mode when the record or playback mode is engaged.

CD DIRECT input

When a CD player or other component is connected to the CD DIRECT terminals as shown in "CONNECTIONS" on page 11, a direct signal will be input without passing through the stereo amplifier.

Also, since the BALANCE control of the deck is no longer be concerned, the signal path will be shortened and sound quality can be improved. To record with these sources, set the CD DIRECT switch according to the input.

1 Location of Main Parts



2 Removal of Main Parts

<Enclosure Section>

Assembly parts for order of removal Assembly part to be removed		Top cover	Cassette door lid	Front plate and fitting	Front panel assembly	Volume PC board assembly (Balance Calibration)	Mechanism assembly (Remove back light solder)	FL PC board assembly	Headphone PC board assembly	Headphone volume assembly	Timer switch PC board assembly	Input volume assembly	Main PC board shield case	CD direct switch bar	Main PC board assembly
Cassette lid	1														
Front panel assembly		1	2		3										
Volume PC board assembly		1		2		3									
FL PC board assembly		1						3					2		
Headphone volume PC board assembly		1		2						3					
Timer switch PC board assembly		1		2					,	3	4				
Headphone PC board assembly		1	,	2					3						
Mechanism assembly		1					2								
Main PC board assembly		1			2							4	3	5	6
Input level volume assembly		1										2			

^{*} Remove in the order of the numbers of the assembly parts for removal

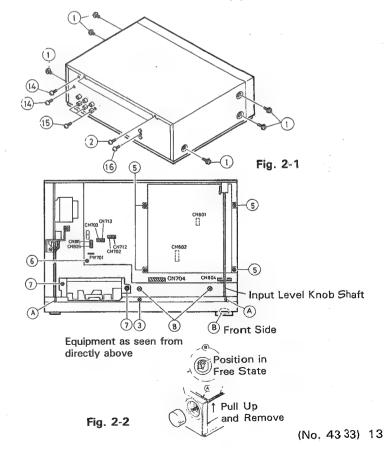
External Parts

■ Top Cover

- 1. Remove the six screws 1 on the left and right sides and the two attachment screws 2 on the back side.
- 2. Remove the top cover by pushing towards back.

■ Front Cover and Fitting

- Remove the screw 3 retaining the center of the front plate.
- 2. Remove the three screws 4 retaining the bottom plate fitting on the bottom (see Figure 2-3).
- 3. Press the two points (A) on the mold section to remove the catches on the inner side of the front cover and then remove the front cover towards you.
- 4. Pull the fitting toward the front and remove.



■ Cassette Door Cover (Lid)

1. Turn the power ON and press the eject button to open the cassette door.

Pull the cover up to remove.

Assembly Parts

When removing as the front panel assembly (with mechanism)

- Remove the top cover of the external parts. Remove the front plate to prevent scratching.
- 2. Remove the cassette cover.
- 3. Pull out the input level knob. Pull the shaft knob section upward to set it in the free position (see Figure 2-2).
- 4. Remove the four screws 5 retaining the PC board shield case (see Figure 2-2).
- 5. Remove the wire from the main PC board (see Figure 2-2)
 - a) Remove CN804 of the Dolby switch/calibration volume.
 - b) Remove the wires CN802, CN801 for record/playback and erasing heads.
 - c) Remove CN704 going to the FL PC board.
 - d) Remove CN703, CN713, CN702 and CN712 going to the leaf switch PC board.
 - Remove CN805 and CN815 going to the headphone PC board.
- Remove the cam switch wire (FW701) from the mechanism PC board connector.
- 7. Remove the screw 6 retaining the headphone PC board grounding wire.
- 8. Remove the two screws 7 retaining the mechanism assembly on the chassis.
- 9. Remove the two screws 8 retaining the front panel and chassis on the bottom plate.

■ PC board assembly inside front panel (see Figures 2-4 and 2-5).

1. Remove the front panel assembly.

Volume PC board assembly.

- 1. Pull out the volume knob.
- 2. Remove the three screws 10 retaining the volume PC board.

• FL PC board assembly

- 1. Remove the volume PC board.
- 2. Remove the mechanism assembly (removing the back light soldering \bigcirc).
- 3. Remove the nine screws (11) retaining the FL PC board.

Headphone PC board assembly

 Remove the screw (hexagonal) retaining the headphone jack.

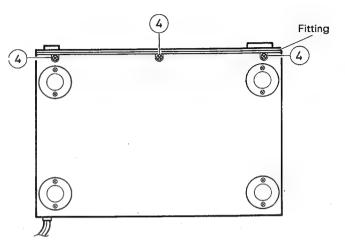


Fig. 2-3

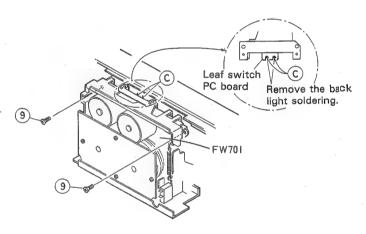


Fig. 2-4

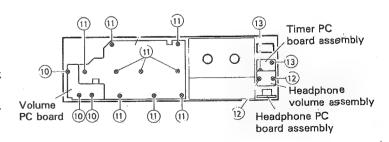


Fig. 2-5

Headphone volume PC board assembly/timer switch PC board assembly

- 1. Pull out and remove the headphone volume knob.
- 2. Remove the two screws 12 retaining the headphone volume PC board (see Figure 2-5).
- Remove the two screws (3) retaining the timer switch PC board (see Figure 2-5).

Main PC Board Assembly

- 1. Pull out and remove the input level volume knob.
- 2. Remove the two screws (14) retaining the volume on the back panel (see Figure 2-1).
- 3. Remove the three screws (15) retaining the pin jacks (see Figure 2-1).
- 4. Remove the screw 16 retaining the DCS jack (see Figure 2-1).
- 5. Push up the input volume shaft so that the shaft goes into a free state from the front panel (see Figure 2-2).
- Pull out and remove the input volume assembly straight up.
- 7. Remove the four screws (5) retaining the amp shield case (see Figure 2-2).
- 8. Remove the screw 6 that is tightened with the headphone grounding.
- 9. Remove the CD direct switch bar (see Figure 2-6).
 - 1 Turn the switch ON.
 - 2 Pull the remote bar only from position 1.
 - 3 Remove the remote bar (from the switch shaft on the in L201: 562 side and remove by pushing to the back.
- Pull the main PC board assembly slightly forward and bring it up from the back.
- Since the headphone grounding will float up when a current is passed, connect it separately to the chassis.

When removing only the mechanism assembly

- 1. Remove the top cover.
- Remove the four screws (5) retaining the main PC board shield case (see Figure 2-2).
- Remove the wires from the main PC board (see Figure 2-2).
 - a) Remove the wires CN802 and CN801 for record/playback and erase heads.
 - Remove CN703, CN713, CN702 and CN712 going to the leaf switch PC board.
- 4. Remove the cam switch wire (FW701) from the mechanism PC board connector (see Figure 2-2).
- 5. Remove the two screws 9 retaining the mechanism on the front panel assembly (see Figure 2-4).
- 6. Remove the two screws 7 retaining the mechanism assembly on the chassis (see Figure 2-2).
- 7. Remove the cassette back light soldering © on the center of the upper surface of the mechanism (Figure 2-4).

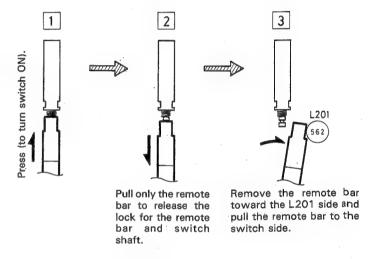


Fig. 2-6

When removing the front panel assembly (after removing the mechanism)

- 1. In case the mechanism assembly is included, carry out steps 1,2,3 of "Assembly Parts" on page 14.
- Remove the wires from the main PC board (see Figure 2-2).
 - a) Remove CN804 for the Dolby switch/calibration volume.
 - b) Remove CN704 going to the FL PC board.
 - c) Remove CN805 and CN815 going to the headphone PC board.
- Remove the cam switch wire (FW701) from the mechanism PC board connector.
- 4. Remove the screw (6) retaining the headphone PC board grounding wire (see Figure 2-2).
- Remove the two screws (9) retaining the mechanism assembly to the front panel assembly (see Figure 2-4).
- 6. Remove the two screws (8) retaining the front panel and chassis to the bottom plate (see Figure 2-2).

[Order for Disassembly of Mechanism]

 Remove the mechanism assembly from the mechanism holder.

■ Replacing the Leaf Switch

- 1. Remove the two screws 1 retaining the switch arm assembly (also removing the collar at this time).
- 2. Remove the switch arm tension spring.
- 3. Remove the switch arm assembly, being careful not to bend the leaf switch.
- 4. Remove the three screws 2 retaining the leaf switch PC board assembly.
- 5. Remove the leaf switch.

Replacing the Pinch Roller (Right Side)

- 1. Remove the E washer (3) of the pinch roller shaft.
- 2. Pull the pinch roller assembly up slightly and remove the return spring (thin black spring) on the shaft side from the pinch roller.

(Left Side)

(Height must be adjusted with M300 gauge after replacement)

- 1. Remove the pinch roller arm shaft height adjustment screw (using a 4 mm nut remover (box)).
- 2. Remove the return spring on the chassis side.

Replacing the head

(Be sure to re-adjust if you have turned the attachment

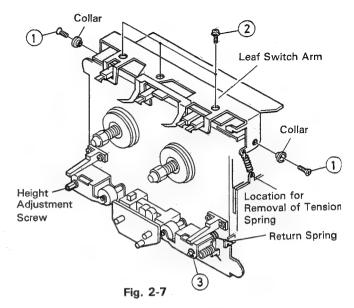
- 1. Remove the three screws 5 for adjusting the head base height.
- 2. When removing the playback head, remove the two screws (6).
 - If the head base is removed, the height adjustment spring will also come off.

(Be careful not to lose it).

- When the head base is removed, there is a recording head below this that can be removed by removing the three screws 7 and 8.
 - (Be careful not to misplace the spring below the head).
- 4. Remove the attachment screw (9) to remove the erase head.

To remove the head mount base (when removing as the head block), remove the three screws \bigcirc , \bigcirc and \bigcirc .

(Be careful at this time not to exert any stress on the playback head base).



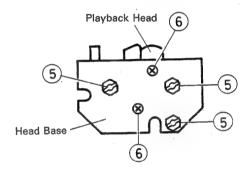


Fig. 2-8

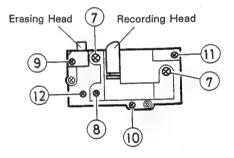
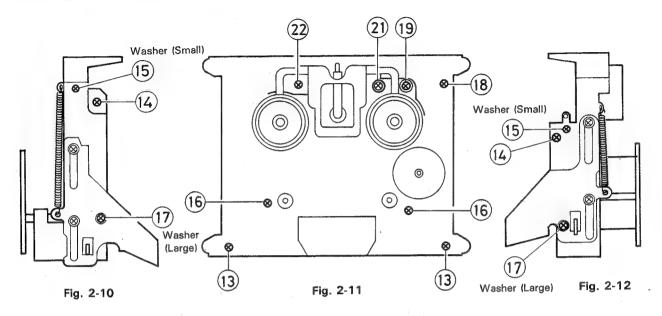


Fig. 2-9

■ Capstan Assembly (Including Flywheel)

- 1. Remove the pinch roller arm assembly (left and right).
- 2. Remove the ten screws (3), (14), (15), (16), (17) retaining the mechanism chassis and capstan motor assembly.
- 3. Loosening the Phillips head screw will facilitate removal of the capstan motor assembly.



■ Cam Motor Assembly/Reel Motor Assembly

- 1. Remove the motor terminal PC board and then remove the two screws 18 and 19 retaining the cam motor assembly. Remove the motor terminal PC board and then remove the two screws 22 and 21 retaining the reel motor assembly.
- Or, if the cam motor assembly and reel motor assembly are removed at the same time, it is also possible to remove the terminal PC board assembly.

■ Cam Switch Assembly

Remove the screw 23 retaining the cam switch assembly. This can be removed by removing the disk brake lever from the reel disk.

■ Replacing the Motor Belt and Flywheel

Remove the four screws (24) retaining the motor bracket (being careful of grease when belt comes off).

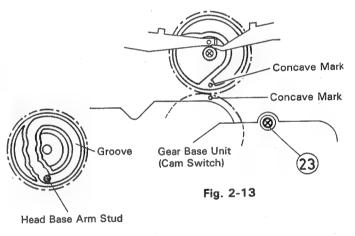


Fig. 2-14

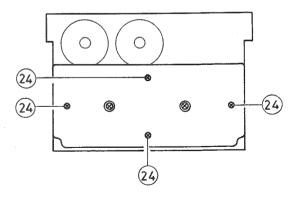


Fig. 2-15

3 Jig List

1. Mechanism Adjusting Jig

M300

Head adjusting screw driver

Box

: Adjustment of head angle and tape running

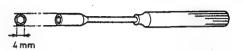
: Adjustment of head angle and height of tape guid

: Adjustment of pinch roller height









Mechanism screw driver

Box

Fig. 3-1

2. TEST TAPE

Tape No.	Frequency	Purposes	
TS-12 (UD) TS-10 (SA) TS-11 (ME)		Normal standard recording tape (for deck) Standard crawling recording tape (AC-513) Standard metal recording tape (AC-712)	
VTT712 VTT724 TMT735 VTT739 TMT6447 TMT6448 TMT702 CTG-N	3 kHz 1 kHz 1 kHz 12.5 kHz 63 Hz, 1 kHz, 10 kHz	Measurement of tape speed/wow and flutter Replaying level standard tape Check of replaying frequency characteristics Check of replaying frequency characteristics Confirmation of music selection action (YES) Confirmation of music selection action (NO) Adjustment of replay head angle (azimuth) Measurement of PLAY, FF and REW torques	
Mirrore tape		For confirmation of tape running	

3.

Audio frequency oscilloator $\,$ Frequency range: 50 Hz \sim 20 kHz and output: more than 0 dBs (0.775 V) with 600 Ω impedance

Attenuator

Electrronic voltmater

Distortion gaug (with band pass filter)

Wow and flutter gauge

Tape counter gage tape speed and Bias frequency adjustment.

DC voltmater L304 and L404 adjustment

4 Main Adjustment

■ Mechanical Adjustment

When replacing head, check the height and tilt (rough adjustment) of each head as follows.

Tape travel adjustment

Use tool M300. Be careful not to damage head.

Tape guide adjustment

Reflector position
(guide post)

Guage moving direction

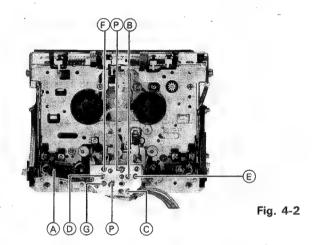
Tilt adjustment

Reflector position (guide post)

Guage moving direction

Fig. 4-1

■ Location of adjustment



■ Mechanical adjustment procedures

	ltem	Method	Standard Value	
1	Fly wheel and thrust check	Check by feeling	0.2 ~0.5 mm	
2	Pinch roller fastening order check	Right pinch roller should fasten to capstan shaft before left pinch roller.		
3	Pinch roller guide height adjustment	Use M300 gauge and adjust (A) so that 3.8 mm gauge can pass.		
4	Playback head height and tilt adjustment	 Use M300 gauge and adjust playback head tape guide with B screw so that 3.8 mm gauge can pass. Adjust C screw so that playback head is not tilted and that there is no gap between the gauge and head. Guage will touch gap face, adjust carefully. Hold a flash light from the opposite side and check for light leakage. Re-check guide height. If gauge touches, re-adjsut upper 1), 2). 		Pinch roller guide height adjustment Playback head tilt adjustment

	Item	Method	Standard Value	
5	Playback azimuth ad- justment	Playback TMT702 (14 khz) and adjust screw (D) to maximum output position with no phase difference.		
6	Tape travel check	Use C-90 padded tape and check that tape head is not curled at beginning of wind.		Use mirror tape to check tape travel.
	Recording head height, tilt. Azimuth adjustment	1) Record and playback 10 kHz and adjust screw (E) to maximum output position with no phase difference. (azimuth adjustment) 2) Record and playback 10 kHz and adjust screw (F) to maximum output position with no phase difference. (height adjustment) 3) Use M300 gauge and adjust recording head tilt with screw (G) following the procedure for adjusting playback head tilt. 4) Record and playback 10 kHz and re-adjust azimuth adjusting screw (E) to maximum output position. Match L/R phases.		Recording head tilt adjustment
8	Head position	Use M300 gauge and adjust so that playback head is in front of recording head. Other standards are as follows. The measurements are as against guide post (H).	0.05 ~0.35 mm	P -
		Guide Post Guide Post B Head R Hea		9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		Bend and adjust head base so that a is within 4.4~5.1 mm at MS. Adjusting part Excessive = Bend in ↑ direction Insufficient = Bend in ↓ direction		Head position adjustment Adjust screw P so that playback head is "b" measurement in front of recording head. [re-adjust playback, recording azimuth after adjusting P.]
9	Confirmation of tape speed	By replaying VTT712, confirm that the reading of F counter is 3,000 ± 15 Hz.	3000 ± 15Hz	
10.	Confirmation of one flatter	By replaying VTT712, confirm that the flatter meter value is not more than 0.04 % (WTD).	0.04% (WTD)	
11	Replay torque FF/REW torque	By using the CT-120M gauge, confirm that the replay torque is 35 g - 70 g cm. By using the CT-F gauge, confirm that the FF/REW torque is 70 - 200 g cm	Replay: 35 - 70 g·cm FF/REW: 70~200g·cm	
12	Confirmation of MS action	After selection with the TMT6447 tape, start playing action. Confirm that any selection action cannot be performed with the TMT6448 tape.		

■ Electric Circuit Adjustment Location

Main Amplifier Base (Parts Side) Level indicator adj Rec/Playback frequency adj. VR106 L R Playback Playback level equalizer Rec/Playback adj. adj. frequency adj. (NORMAL) HX-PRO adj. VR 103 Bias frequency adj. Rec/PB sensitivity (Level adj.)
Calibration adj.
(Bias adj.) Front

■ Electrical Circuit Adjustment Procedures

Make the following adjustment after the tape travel and head angle adjustment.

- In principle, the adjustments should be made in the order described.
- Adjustments required after head replacement are marked with an asterisk (*)

0dB ≑ 0.775V

	Item		Adjustmen		
1	Dolby circuit			Frequency Level	Output Value and Deviation
	recording check (record	heck record, Dolby B INPUT: LINE IN (-8 dBs) Measurement Point: IC803, pins ③ ® Measurement point reference level: 400 Hz -6 dBs	1 kHz Cal -40 dB	+5.7 dB ±2 dB	
			1	5 kHz Cal -20 dB	+3.5 dB ±1.5 dB
	mode)			1 kHz Cal	0 dB ±0.5 dB
			1 kHz Cal -40 dB	+ 16.2 dB ^{±3} dB	
			ence level: 400 Hz - 6 dBs - (388 mV) (= Cal. level)	5 kHz Cal -20 dB	+2.9 dB ±2.5 dB
		Dolby C	(SSS, Country)	1 kHz Cal	0 dB ±1 dB

	Item	Adjustment Method	Adjustment Location	Standard Value	Remarks
*2	Playback level adjustment	 Play the VTT724 (1 kHz) test tape and adjust VR101 and VR201 so that the LINE OUT output is -7.5 dBs (the L-R channel output differential must be 0.5 dBs or less). Headphone output check -17.5 dBs ±3 dB L-R differential 2 dB or less 	VR101, VR201	-7.5 dBs ±0.5 dB Phones level -17.5 dBs ±3 dB	The playback level changes when the head is replaced and must be adjusted, use an electronic voltmeter with an impedance of 100 k Ω or more.
*3	Playback equalizer adjustment	Play the TMT735 (1 kHz, 12.5 kHz) test tape and adjust VR102 and VR202 so that the output value is standard at 1 kHz and 12.5 kHz.	VR102, VR202	With 1 kHz as reference, 0.5 ± 0.5 dB at 12.5 kHz	NR: OFF 63 kHz: +2 dB ±3 dB (check) (VTT739)
4	Bias frequency adjustment	Connect a frequency counter to the body of C301 and adjust L806 so that the counter reads 210 kHz ± 3 kHz	L806	210 kHz±3 kHz	METAL TAPE Position (Attach a probe to the measur- ing instrument lead terminal and plug in the connector plug.)

	Item	Adjustment Method	Adjustment Location	Standard Value	Remarks
5	HX PRO coil adjustment	This step must be preformed after the bias frequency adjustment. Load a metal tape and set the deck to the recording mode. Adjust L116(L) and L216 (R) to minimum respective voltage of TP101(L) and TP201(R).	L116, L216	Minimum output value	DC voltmeter TP101: R314 TP201: R414
*6	Recording/ playback fre- quency ad- justment	Record 1 kHz at the Ref - 20 dB input then record 63 Hz and 12.5 kHz and adjust VR104 and VR204 so that the difference between the 63 Hz and 12.5 kHz outputs is the standard value in relation to the 1 kHz output during playback. (Basically, adjust so that the 1 kHz and 12.5 kHz outputs are the standard values.) Next, record and replay a metal tape and adjust the difference within 0 + 1 dB by means of VR106 and VR206.	VR204 Center the bias adjust- ment volume (VR807) (control on the front panel). Metal VR106, VR206	With 1 kHz as reference, Normal 0.5±0.5 dB at 12.5 kHz. CrO₂/Metal 0 [±] 0 dB at 12.5 kHz	Ref − 20 dB: value − 20 dB below the reference input value ≑ − 28 dB Also adjust for normal tape and the left and right channels. • The bias value is set in accordance with the voltage shift for normal at chrome and metal. • When the bias current is not correctly adjusted, the recording characteristics will become as shown to the left.
		(dB)	Increase i frequencies		Current
		Response (dB)	Decrease in		ate bias current
		0 50 h	igh frequencies	High bias	
*7	Recording/ playback sensitivity adjustment	1) Input to the LINE IN terminal so that the source monitor output is -7.5 dBs. 2) Adjust VR103 and VR203 so that the recording signal current is -7.5 dBs during recording and playback.	VR103, VR203	Normal -7.5 dBs ±0.5 dB Chrome, metal: -7.5 dBs ±1.5 dB	The right and left level differential must be 1 dB or less for both normal and metal. Make adjustment by using normal tape, and make sure that the level fluctuation for chrome and metal tapes is within 1.5 dB, and that the left/right level difference is within 1.0 dB. During adjustment, set the balance volume to the center position. After adjustment, turn the volume and confirm that the Lch and Rch are correct.
*8	Adjustment of calibration	1. Connect TP701 to the earth when turning off the power source. 2. After turning on the power source, set the monitor to the [SOURCE], and press the calibration button and play button at the same time. 3. Adjust VR105 (LEVEL) and VR205 (BIAS) so that the leveling indicators [LEVEL] and [BIAS] on the FL indicator section turn on at [O LEVEL], the lowest levels.		Lowest point where the FL O level is turned on.	
	Confirma- tion of calibration volume	The values of the recording and replaying (monitor) levels, which are by -20 dB lower than the reference (0 Vu) at 10 kHz, should be decreased and increased when turning the calibration bias adjusting VR counterclockwise and clockwise respectively.	Calibration bias volume	Clockwise: Decrease Counterclock- wise: Increase	VR807
		The values of the recording and replaying (monitor) levels, which are by -20 dB lower than the reference (0 Vu) at 1 kHz, should be increased and decreased when turning the calibration bias adjusting VR counterclockwise and clockwise respectively.	Calibration level volume	Clockwise: Increase Counterclock- wise: Decrease	VR801

	Item	Adjustment Method	Adjustment Location	Standard Value	Remarks
9	Adjustment and confirma- tion of level indicator	1) While applying 1 kHz signal, adjust the input on the monitor (SOURCE) so that the line output level becomes -34 dBs. Adjust VR805 so that (-30 dB'' of the FL level indicator is turned on and both or one of the indicators are turned on at -36 dBs. 2) Indicator Line output level 0 -4 dBs ± 1 dB + 2 dBs ± 2 dB -10 -14 dBs ± 2 dB -30 -34 dBs ± 3 dB	VR805	Output ON at -34 dB OFF at -36 dB	 Whenever the output is by +1 dB greater than the specified input, 1, 2, 3 will successively be indicated. When the output is less than the specified input, the maximum value will be held for about 2 sec. Press the [CALL] button to indicate [OVER 12 dB] for 5 sec. by flickering.
10	Recording/ playback distortion check	 Record a 1 kHz signal so that the LINE OUT output is -2 dBs and the level indicator is +6 dVB. Use a distortion gauge to check if the output is the standard value during playback. 		Normal tape: 2% or less Chrome tape: 3% or less Metal tape: 2% or less	Check after adjusting the bias current and recording level.
11	Recording/ playback S/N ratio check	 Record 1 kHz, 0 dB input and then remove the input and record without a signal. Playback this recording and measure the difference between the 0 dB recording and no-signal recording. The standard values must be satisfied. 	:	Normal: 38 dB or more Chrome: 42 dB or more Metal: 42 dB or more	
12	Erase ratio check	 Apply a 1 kHz signal from LINE IN and adjust the INPUT LEVEL knob so that the input level is -8 dBs. Increase the signal level to 20 dB and record. Rewind and erase the recorded section of the tape. Measure the output ratio between the signal and no-signal sections of the tape with an electronic voltmeter. 		55 dB or more	Connect a B.P.F (band pass filter) between the deck and the electronic voltmeter. 1 kHz 0 VU Deck record/erase (1 kHz) Band pass filter (B.P.F.) Electronic voltmeter

5 Block Diagram

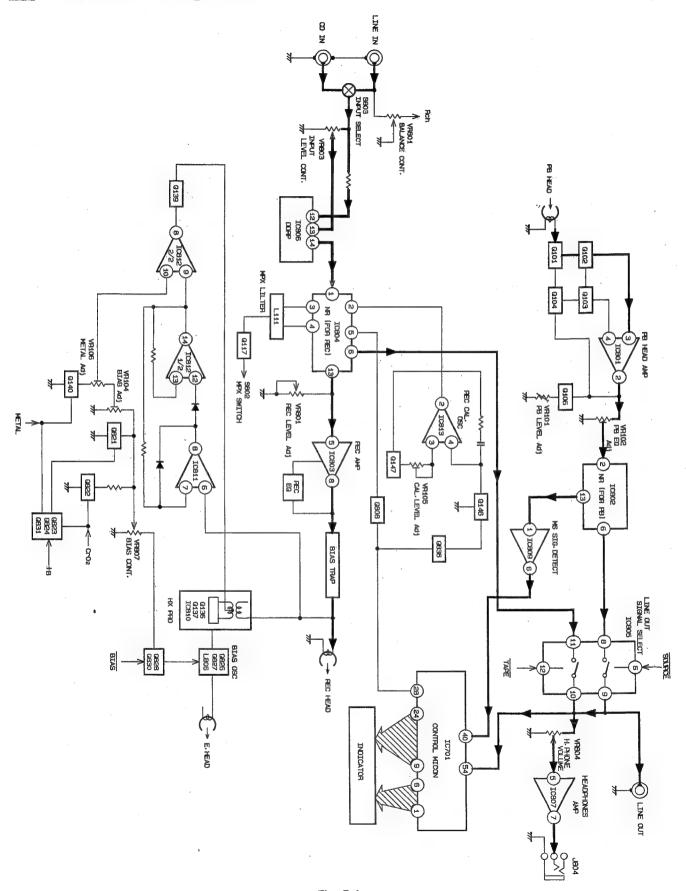
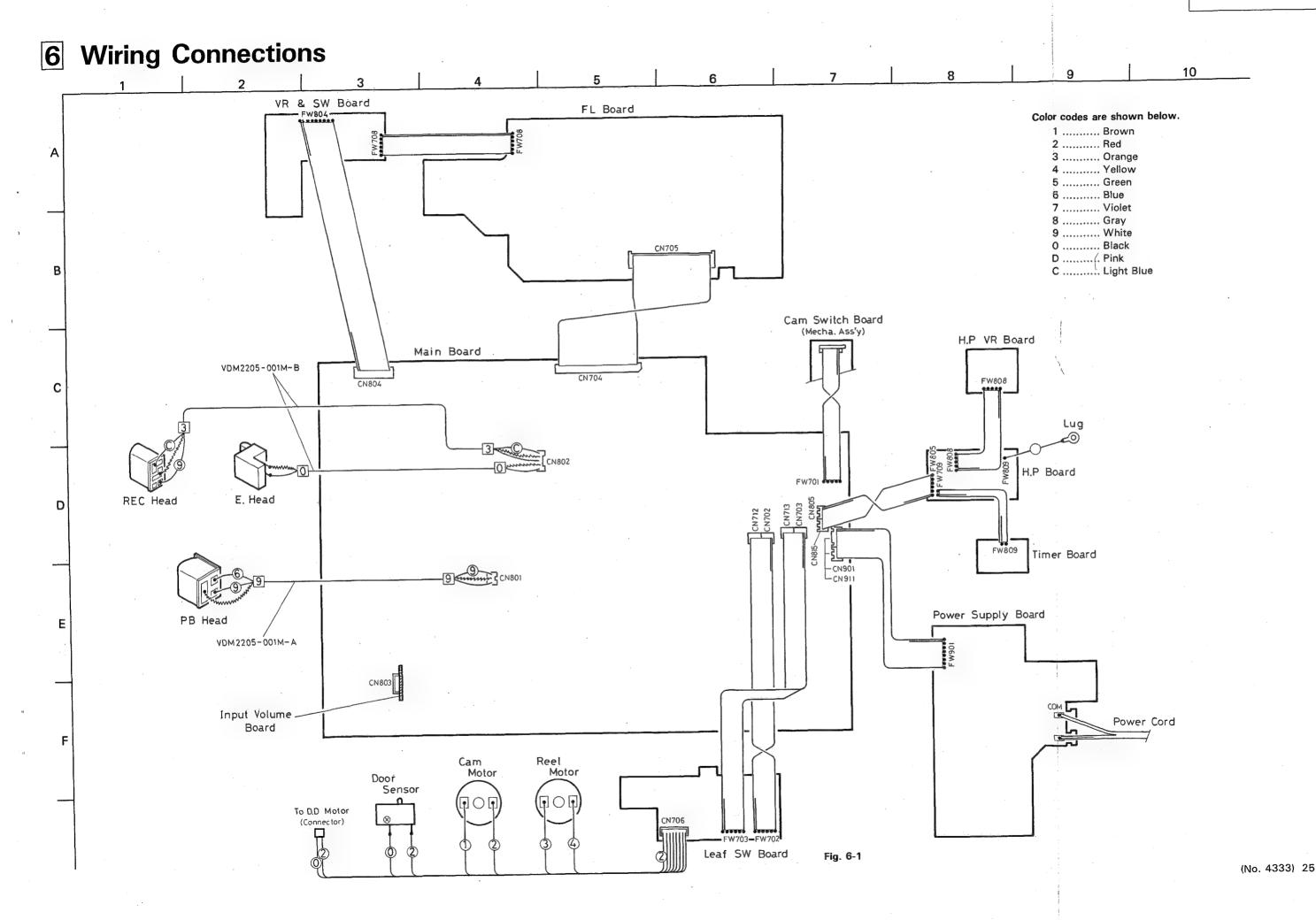
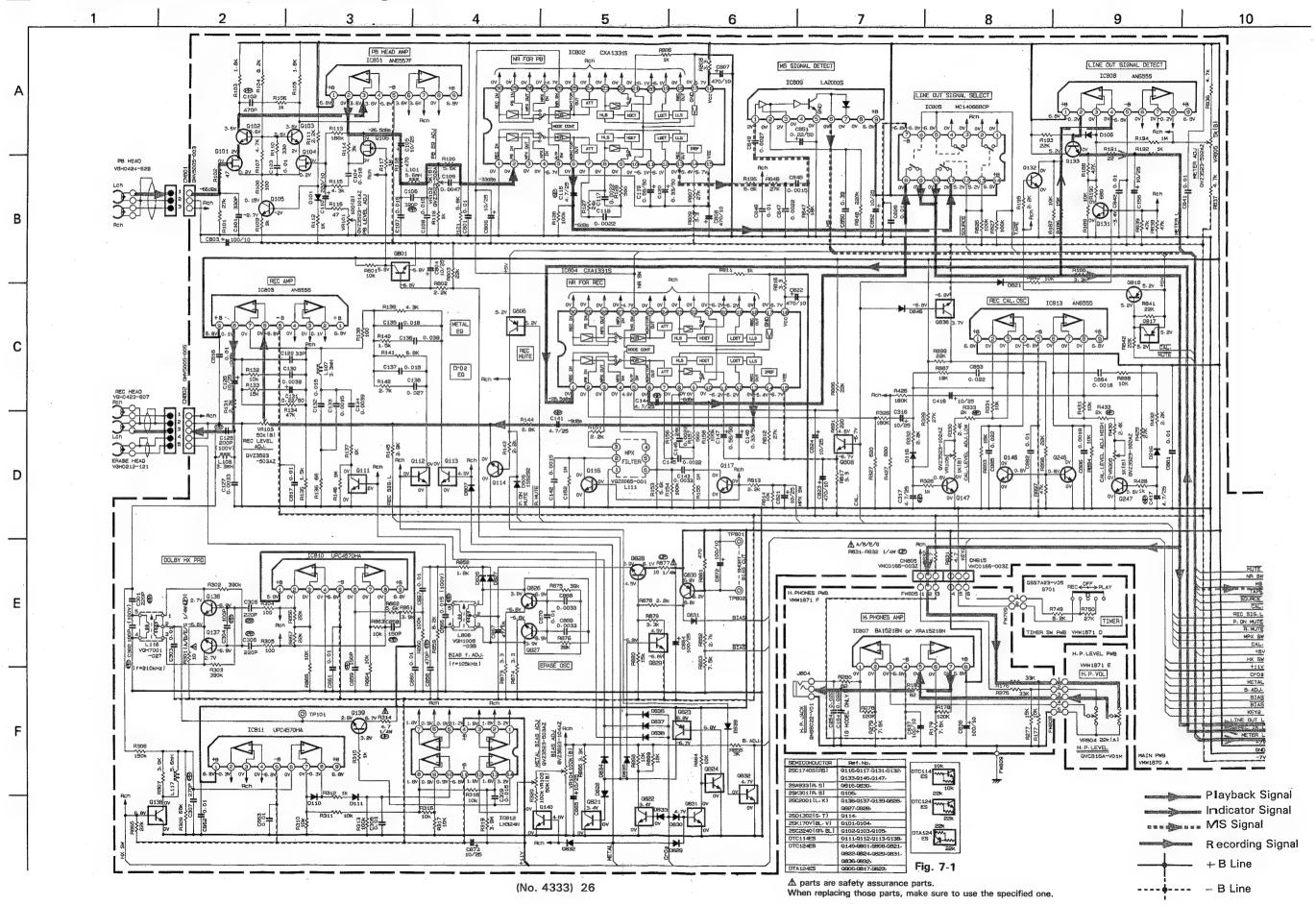
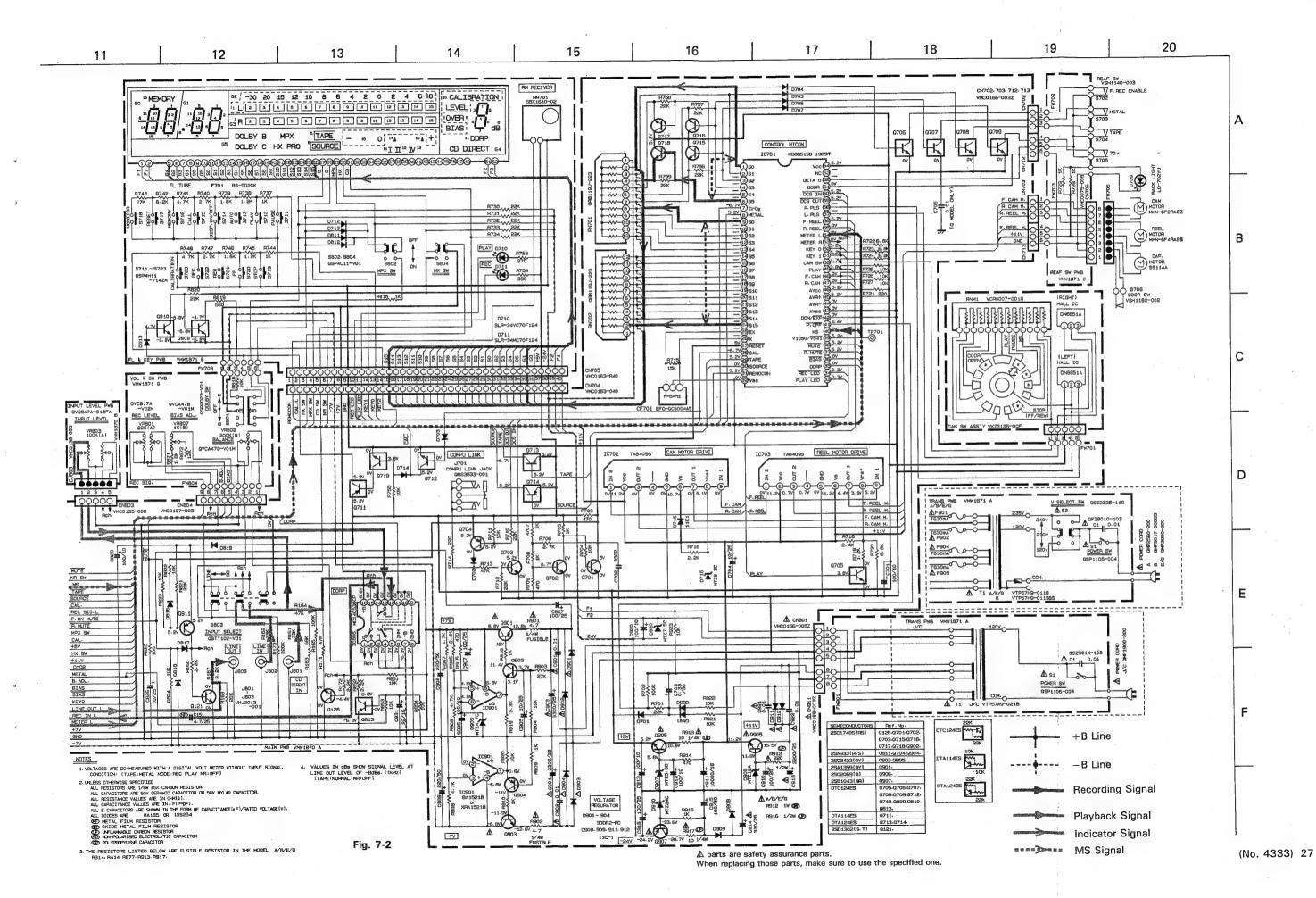


Fig. 5-1



7 Standard Schematic Diagram





8 Location of P.C. Board and P.C. Board Parts List BLOCK NO. 011 10 VMW1870 C VMW1870 B

 $\ensuremath{\Delta}$ Parts are safety assurance parts. When replacing those parts, make

Main Board Parts List sure to use the specified one.

Г	1	T	7
1	A REF.	PARTS NO.	PARTS NAME
Γ	C 101	EFZ0101-331ZS	NH CAPACITOR
-1	C 102	QFP31HJ-471ZM	PP.CAPACITOR
-	C 103	QFV41HJ-103	FILM CAPACITOR
-	C 104	QFV41HJ-183	TF CAPACITOR
-	C 105	VCE0036-106	E CAP(TAPING)
	C 106	QFP31HJ-391ZM	PP CAPACITOR
	C 107	QFV71HJ-153ZM	FILM CAPACITOR
ĺ	C 108	QFV71HJ-153ZM	FILM CAPACITOR
1	C 109		M CAPACITOR
-	C 110	VCE0063-227Z	E CAPACITOR
	C 116 C 117	VCE0033-475	E CAP(TAPING)
	C 117	QFN41HJ-222	M CAPACITOR
Ţ	C 119	QFN41HJ-222 QETC1HM-564ZN	M CAPACITOR
	C 120		E CAPACITOR
-	C 126	QETC1HM-334ZN QFP32AJ-201ZM	PP CAPACITOR
	C 127	QFN41HJ-332	M CAPACITOR
1	C 128	VCE0036-106	E CAP(TAPING)
1	C 129	QCS11HJ-330	C. CAPACITOR
1	C 130	QFN41HJ-392	M CAPACITOR
-	C 131	QETC1HM-224ZN	E CAPACITOR
1	C 132	QFV71HJ-153ZM	FILM CAPACITOR
1	C 133	QFN41HJ-152	M CAPACITOR
	C 134	QFN41HJ-392	M CAPACITOR
	C 135	QFV41HJ-183	TF CAPACITOR
1	C 136	QFV71HJ-393ZM	FILM CAPACITOR
	C 137	QFV41HJ-223	FILM CAPACITOR
-	C 138	QFV71HJ-273ZM	TF_CAPACITOR
1	C 141	VCE0033-475	E CAP(TAPING)
L	C 142	QFN41HJ-152	M CAPACITOR .
ſ	C 143	QFN41HJ-332	M CAPACITOR
	C 144	VCE0033-475	E CAP(TAPING)
	C 145	QFN41HJ-222	M CAPACITOR
	C 146	QFN41HJ-222	M CAPACITOR
_	C 147	QETC1HM-564ZN	E CAPACITOR
		QETC1HM-334ZN	E.CAPACITOR
	C 151	VCE0033-475	E CAP(TAPING)
	C 156	QETC1EM-106ZN	E CAPACITOR
	C 201	EFZ0101-331ZS	NH CAPACITOR
-	C 202	QFP31HJ-471ZM	PP.CAPACITOR
	C 204	QFV41HJ-103 QFV41HJ-183	FILM CAPACITOR
	C 205	VCE0036-106	TF CAPACITOR E CAP(TAPING)
	C 206	QFP31HJ-391ZM	PP CAPACITOR
Ĺ	C 207	QFV71HJ-153ZM	FILM CAPACITOR
1	C 208	QFV71HJ-153ZM	FILM CAPACITOR
	C 209	QFN41HJ-472	M CAPACITOR
1	C 210	VCE0063-227Z	E CAPACITOR
ı	C 216	VCE0033-475	E CAP(TAPING)
[C 217	QFN41HJ-222	M CAPACITOR
Г	C 218	QFN41HJ-222	M CAPACITOR
1.	C 219	QETC1HM-564ZN	E CAPACITOR
ı	C 220	QETC1HM-334ZN	E.CAPACITOR
1	C 226	QFP32AJ-201ZM	PP CAPACITOR
L	C 227	QFN41HJ-332	M CAPACITOR
		VCE0036-106	E CAP(TAPING)
	C 229	QCS11HJ-330	C CAPACITOR
1	C 230	QFN41HJ-392	M CAPACITOR
	C 231	QETC1HM-224ZN	E CAPACITOR
Н	C 232	QFV71HJ-153ZM	FILM CAPACITOR
		QFN41HJ-152	M CAPACITOR
	C 234	QFN41HJ-392 QFV41HJ-183	M CAPACITOR
П	C 236	QFV71HJ-393ZM	TF CAPACITOR
	C 237	QFV41HJ-223	FILM CAPACITOR FILM CAPACITOR
Н	C 238	QFV71HJ-273ZM	TF.CAPACITOR
	C 241	VCE0033-475	E CAP(TAPING)
	C 242	QFN41HJ-152	M CAPACITOR
	C 243	QFN41HJ-332	M CAPACITOR
	C 244	VCE0033-475	E CAP(TAPING)
П	C 245	QFN41HJ-222	M CAPACITOR
	C 246	QFN41HJ-222	M CAPACITOR
	C 247	QETC1HM-564ZN	E CAPACITOR
H	C 248	QETC1HM-334ZN	E.CAPACITOR
L	C 251	VCE0033-475	E CAP(TAPING)
П	C 256	QETC1EM-106ZN	E CAPACITOR
П	C 301	QFP41HJ-221	PP CAPACITOR
П	C 302	QFP32AJ-1812M	PP_CAPACITOR
	C 303	QCVB1CM-103Y	C CAPACITOR
Ц	C 304	QFP31HJ-101ZM	PP CAPACITOR
П	C 305	QFP41HJ-221	PP CAPACITOR
П	C 306	QFP41HJ-221	PP CAPACITOR
Н		QFP31HJ-271ZM	PP CAPACITOR
1		QFV41HJ-103	FILM CAPACITOR
Ш	C 309	QFV71HJ-1532M	FILM CAPACITOR

_			BLOCK	NO. 01
2	RE	F.	PARTS NO.	PARTS NAME
Γ		16		E CAPACITOR
l		17 01		PP CAPACITOR
	5	02	QFP32AJ-181ZM	PP_CAPACITOR
L	_	03	QCVB1CM-103Y	C CAPACITOR
l	1	04	QFP31HJ-101ZM QFP41HJ-221	PP CAPACITOR
l	C 4	06	QFP41HJ-221	PP CAPACITOR
ı	1	07		PP CAPACITOR
┝		08	QFV41HJ-103 QFV71HJ-153ZM	FILM CAPACITOR
l		16	QETC1EM~106ZN	E CAPACITOR
		17 01	VCE0033-475 QETC1AM-107ZN	E CAP(TAPING) E CAPACITOR
	1	02	QCBB1HK-331Y	E CAPACITOR C CAPACITOR
	I .	03	QETC1HM-334ZN	E-CAPACITOR
		04	QETC1EM-106ZN QCVB1CM-103Y	E CAPACITOR
		01	QCVB1CM-103Y	C CAPACITOR C CAPACITOR
		03	QETC1AM-107ZN	E CAPACITOR
		04	QETC1EM-106ZN	E CAPACITOR
	1 .	06	QETC1EM~106ZN VCE0065-477Z	E CAPACITOR E CAP(TAPING)
	C 8	08	VCE0065-477Z	E CAP(TAPING)
_		16	QCVB1CM-103Y	C CAPACITOR
		17 21	QCVB1CM-103Y QETC1EM-106ZN	C CAPACITOR E CAPACITOR
	C 8	22	VCE0065-477Z	E CAP(TAPING)
		23	VCE0065-477Z	E CAP(TAPING)
-		24	QETC1EM-106ZN QETC1EM-106ZN	E CAPACITOR E CAPACITOR
		27	QETC1EM-107ZN	E.CAPACITOR
		28	QCVB1CM-103Y	C CAPACITOR
		29 31	QETC1AM-107ZN QETC1CM-226ZN	E CAPACITOR E CAPACITOR
		41	QCVB1CM-103Y	C CAPACITOR
		42	QCVB1CM-103Y	C CAPACITOR
- 1		46	QFV41HJ-103 QFN41HJ-222	FILM CAPACITOR M CAPACITOR
		48	QFN41HJ-152	M CAPACITOR
		49	QFN41HJ-272	M.CAPACITOR
		50	QFV81HJ-394 QETC1HM-224ZN	FILM CAPACITOR E CAPACITOR
1		52	QETC1EM-106ZN	E CAPACITOR
_		56	QFP31HJ-471ZM	PP.CAPACITOR
1		57	QFV41HJ-103 QFP31HJ-151ZM	FILM CAPACITOR PP CAPACITOR
		59	QFP31HJ-151ZM	PP CAPACITOR
Į		50	QCVB1CM-103Y	C CAPACITOR
+		51	QCVB1CM-103Y QCVB1CM-103Y	C CAPACITOR C CAPACITOR
1		33	QCVB1CM-103Y	C CAPACITOR
		54	QETC1EM-107ZN	E.CAPACITOR
	C 86		QETC1EM-106ZN QFP82AJ-153	E CAPACITOR P.P.CAPACITOR
1	C 86	57	QETC1CM-4762N	E CAPACITOR
	C 86	8	QFN41HJ-332	M CAPACITOR
		70	QFN41HJ-332 QFV41HJ-103	M CAPACITOR FILM CAPACITOR
	C 87	2	QETC1AM-107ZN	E CAPACITOR
		3	QETC1EM-106ZN	E CAPACITOR
		31	QCVB1CM-103Y QCVB1CM-103Y	C CAPACITOR C CAPACITOR
	C 88	33	QFV41HJ-223	FILM CAPACITOR
+		34	QFN41HJ-182	M CAPACITOR
		36	QFV41HJ-223 QFN41HJ-182	FILM CAPACITOR M CAPACITOR
1	C 90	1	QFV41HJ-103	FILM CAPACITOR
7	C 90		QFV41HJ-103 VCE0064-338	FILM CAPACITOR E CAPACITOR
į	C 90		VCE0064-338	E CAPACITOR
	C 90	5	QETC1EM-106ZN	E CAPACITOR
1		6	QETC1AM-107ZN	E CAPACITOR
	C 90	- 1	QETC1EM-107ZN VCE0034-227	E.CAPACITOR E CAPACITOR
†	C 90	9	VCE0034-227	E CAPACITOR
	C 91		QETC1EM-107ZN	E.CAPACITOR
	C 91		QETB1CM-109N QETC1AM-107ZN	E CAPACITOR E CAPACITOR
1	C 91	3	QETC1AM-107ZN	E CAPACITOR
4	C 91		VCE0062-337	E CAPACITOR
l	C 91		QETC1HM-107ZN QETC1EM-107ZN	E CAPACITOR E.CAPACITOR
1	C 91	8	QETB1EM-228N	E CAPACITOR
1	C 92	20	QETC1AM-107ZN	E CAPACITOR

_			· · · · · · · · · · · · · · · · · · ·
Δ	REF.	PARTS NO.	PARTS NAME
Δ	C 921		FILM CAPACITOR
	C 922		FILM CAPACITOR
	CJ803		CONNECTOR
L	CN702	VMC0166-003Z	CONNECTOR
	CN703	VMC0166-003Z	CONNECTOR
1	CN704		CONNECTOR
	CN712 CN713	VMC0166-003Z VMC0166-003Z	CONNECTOR
	CN801		CONNECTOR
	CN805		PLUG
1	CN803	VMC0135-005 VMC0107-009	CONNECTOR
Н	CN805		CONNECTOR
Ш	CN815	VMC0166-003Z	CONNECTOR
	CN901		CONNECTOR
П	CN911 D 101	VMC0166-003Z 1SS254	CONNECTOR SI DIODE
Н	D 106	188254	SI DIODE
Ц	0 110	188254	SI DIODE
П	D 111 D 116	1SS254 1SS254	SI DIODE
H	D 201	188254	SI DIODE
	D 206	188254	SI DIODE
Ц	D 210	188254	SI DIODE
\prod	D 211 D 216	1SS254 1SS254	SI DIODE
П	D 701	155254	SI DIODE
	D 702	188254	SI DIODE
Ц	D 703	155254	SI DIODE
H	D 704	1SS254 1SS254	SI DIODE SI DIODE
	D 706	155254	SI DIODE
П	D 707	188254	SI DIODE
Н	D 714	1SS254	SI DIODE
Н	D 715	MTZ8.2C 11E1	ZENER DIODE SI DIODE
	D 806	188292	SI DIODE
Н	D 807	188254	SI DIODE
Н	D 816 D 817	1SS254 1SS254	SI DIODE
П	D 818	188254	SI DIODE
	D 819	188254	SI DIODE
П	D 821	188254	SI DIODE SI DIODE
Н	D 826	1SS254 1SS254	SI DIODE
	D 828	188254	SI DIODE
	D 829	188254	SI DIODE
	D 830 D 831	1SS254 1SS254	SI DIODE
H	D 832	155254	SI DIODE
		188254	SI DIODE
		1SS254 1SS254	SI DIODE .
		155254	SI DIODE
Н	D 837	188254	SI DIODE
П		155254	SI DIODE
		1SS254 1SS254	SI DIODE SI DIODE
A		30DF2-FC	SI DIODE
Δ	D 902	30DF2-FC	SI DIODE
Δ	D 903	30DF2-FC	SI DIODE SI DIODE
		30DF2-FC MTZ4.7C	Z.DIODE(IM)
Ц	D 906	MTZ12A	ZENER DIODE
		MTZ5.6C	ZENER DIODE
	D 908	11E1 11E1	SI DIODE
11		MTZ24C	ZENER DIODE
Δ	D 911	11E1	SI DIODE
Δ	D 912	11E1 MTZ7.5C	SI DIODE ZENER DIODE
П	D 921	188254	SI DIODE
П	D 922	188254	SI DIODE
\vdash		MB885158-1389T	IC
	IC702		IC IC
	10801	AN6557F	IC
	10802	CXA1331S	DOLBY IC
Н		AN6555 CXA1331S	DOLBY IC
	IC805		IC IC
	10806	MC14053BCP	10
		AN6555	1 C
		LA2000S UPC4570HA	IC
	IC811	UPC4570HA	10
		LM324N	IC.
	IC813	AN6555 XRA15218	IC
-	2221		ļ - ~

Г	DEE	BARTS NO	DADOG NAME
1	J 70		PARTS NAME
ļ	J 80		JACK PIN JACK
l	J 80		PIN JACK
l	J 80		PIN JACK INDUCTOR
-	L 10		INDUCTOR
	L 10		INDUCTOR
l	L 11		FILTER OSC COIL(BIAS)
L	L 11		INDUCTOR
l	L 20)	INDUCTOR
ļ	L 20		INDUCTOR
	L 21	,	FILTER
-	L 21		OSC COIL (BIAS)
	L 21		INDUCTOR OSC COIL(BIAS)
	Q 10:	1 2SK170V(BL,V)	FET
	Q 10		TRANSISTOR
H	Q 104		TRANSISTOR -
	@ 109		TRANSISTOR
	Q 100	1	TRANSISTOR DIGI.TRANSISTOR
	Q 112	DTC114ES	DIGI.TRANSISTOR
	Q 113		DIGI.TRANSISTOR
	Q 114		TRANSISTOR TRANSISTOR
	Q 117	2SC1740S(RS)	TRANSISTOR
4	Q 121		TRANSISTOR
	Q 126		TRANSISTOR TRANSISTOR
-	@ 132	2SC1740S(RS)	TRANSISTOR
	Q 133	2SC1740S(RS) 2SC2001(L,K)	TRANSISTOR
+	Q 137		TRANSISTOR TRANSISTOR
-	Q 138	DTC114ES	DIGI.TRANSISTOR
	Q 139		TRANSISTOR TRANSISTOR
	Q 146		TRANSISTOR
1	Q 147	2SC1740S(RS)	TRANSISTOR
1	Q 201 Q 202		FET TRANSISTOR
	Q 203	25C2240(GR,BL)	TRANSISTOR
4	@ 204		FET
	Q 205	1	TRANSISTOR TRANSISTOR
ı	Q 211	DTC114ES	DIGI.TRANSISTOR
1	Q 212 Q 213	DTC114ES DTC114ES	DIGI.TRANSISTOR DIGI.TRANSISTOR
1	Q 214		TRANSISTOR
	Q 216		TRANSISTOR
1	Q 217		TRANSISTOR TRANSISTOR
1		2SC1740S(RS)	TRANSISTOR
1	Q 231		TRANSISTOR
	Q 232		TRANSISTOR TRANSISTOR
	Q 236	2SC2001(L,K)	TRANSISTOR
4	Q 237		TRANSISTOR DIGI.TRANSISTOR
	Q 239		TRANSISTOR
	Q 240	DTC124ES	TRANSISTOR
	Q 246		TRANSISTOR TRANSISTOR
+	Q 701		TRANSISTOR
1	Q 702	2SC1740S(RS)	TRANSISTOR
1	Q 703 Q 704		TRANSISTOR TRANSISTOR
1	9 705	DTC124ES	TRANSISTOR
I	0 706		TRANSISTOR
1	Q 707		TRANSISTOR TRANSISTOR
	Q 709	DTC124ES	TRANSISTOR
+	Q 711 Q 712		DIGITAL-TR TRANSISTOR
1	Q 713		TRANSISTOR
1	Q 714	DTA124ES	TRANSISTOR
1	Q 715 Q 716		TRANSISTOR TRANSISTOR
+	Q 717	2SC1740S(RS)	TRANSISTOR
	Q 718	2SC1740S(RS)	TRANSISTOR
1	Q 719 Q 801		TRANSISTOR TRANSISTOR
1	0 806	DTA124ES	TRANSISTOR
		DTC124ES	TRANSISTOR
1	Q 808		
	Q 811		TRANSISTOR TRANSISTOR
	Q 811	2SA933(R,S) DTC124ES 2SA933(R,S)	TRANSISTOR

Δ	REF.	PARTS NO.	PARTS NAME
	Q 821	DTC124ES	TRANSISTOR
	Q 822 Q 823	DTC124ES DTA124ES	TRANSISTOR TRANSISTOR
	Q 824	DTC124ES	TRANSISTOR
H	Q 826	2SC2001(L,K)	TRANSISTOR
	Q 827 Q 828	2SC2001(L,K) 2SC2001(L,K)	TRANSISTOR TRANSISTOR
	Q 829	DTC124ES	TRANSISTOR TRANSISTOR
	Q 830 Q 831	2SA933(R,S) DTC124ES	TRANSISTOR
П	Q 832 Q 836	DTC124ES	TRANSISTOR TRANSISTOR
Δ	Q 836 Q 901	DTC124ES 2SA1359(OY)	TRANSISTOR
	Q 902 Q 903	2SC1740S(RS) 2SC3422(QY)	TRANSISTOR TRANSISTOR
	Q 903	2SA933(R,S)	TRANSISTOR
Δ	Q 905 Q 906	2SC3422(OY) 2SD2069(Q)	TRANSISTOR TRANSISTOR
Δ	Q 907	2SB1043(QR)	TRANSISTOR
Н	R 101	QRD161J-273 QRD161J-470	CARBON RESISTOR
	R 103		CARBON RESISTOR
П	R 104 R 105	QRD161J-822 QRD161J-182	CARBON RESISTOR
	R 106	QRD161J-102	CARBON RESISTOR
П	R 107 R 108	QRD161J-472 QRD161J-101	CARBON RESISTOR
	R 109	QRD161J-102	CARBON RESISTOR
	R 110 R 111	QRD161J-331 QRD161J-222	CARBON RESISTOR
Н	R 112	QRD161J-102	CARBON RESISTOR
	R 113 R 114	QRD161J-184 QRD161J-302	CARBON RESISTOR
	R 115	QRD161J-432Y	CARBON RESISTOR
Н	R 116	QRD161J-470 QRD161J-105	CARBON RESISTOR
	R 118	QRD161J-471	CARBON RESISTOR
П	R 119 R 120	QRD161J-102 QRD161J-562	CARBON RESISTOR
	R 121	QRD161J-562	CARBON RESISTOR
	R 126 R 127	QRD161J-104 QRD161J-243	CARBON RESISTOR CARBON RESISTOR
	R 128	QRD161J-561	CARBON RESISTOR
П	R 131	QRD161J-272 QRD161J-103	CARBON RESISTOR
П	R 133	QRD161J-153	CARBON RESISTOR
	R 134 R 135	QRD161J-473 QRD161J-152	CARBON RESISTOR CARBON RESISTOR
	R 136	QRD161J-680	CARBON RESISTOR
Н	R 137	QRD161J-102 QRD161J-101	CARBON RESISTOR
	R 139	QRD161J-432Y	CARBON RESISTOR
	R 140 R 141	QRD161J-152 QRD161J-682	CARBON RESISTOR
Ц	R 142	QRD161J-272	CARBON RESISTOR
	R 143 R 144	QRD161J-222 QRD161J-682	CARBON RESISTOR CARBON RESISTOR
	R 145	QRD161J-392	CARBON RESISTOR
	R 146 R 151	QRD161J-105 QRD161J-222	CARBON RESISTOR CARBON RESISTOR
	R 152	QRD161J-105	CARBON RESISTOR
	R 153	QRD161J-562 QRD161J-104	CARBON RESISTOR CARBON RESISTOR
	R 155	QRD161J-105	CARBON RESISTOR
	R 156	QRD161J-243 QRD161J-561	CARBON RESISTOR
	R 158	QRD161J-104	CARBON RESISTOR
	R 161 R 162	QRD161J-333 QRD161J-333	CARBON RESISTOR
\vdash	R 163	QRD161J-683	CARBON RESISTOR
	R 164 R 165	QRD161J-473 QRD161J-104	CARBON RESISTOR CARBON RESISTOR
	R 166	QRD161J-332	CARBON RESISTOR
	R 167 R 168	QRD161J-222 QRD161J-222	CARBON RESISTOR CARBON RESISTOR
	R 169 R 171	QRD161J-203 QRD161J-473	CARBON RESISTOR CARBON RESISTOR
	R 172	QRD161J-222	CARBON RESISTOR
	R 173 R 186	QRD161J-224 QRD161J-153	CARBON RESISTOR
	R 187	QRD161J-103	CARBON RESISTOR
	R 188 R 189	QRD161J-473 QRD161J-105	CARBON RESISTOR
	R 190	QRD161J-681	CARBON RESISTOR
-	R 191	QRD161J-220 QRD161J-102	CARBON RESISTOR
	R 193	QRD161J-223	CARBON RESISTOR
	R 194 R 195	QRD161J-105 QRD161J-222	CARBON RESISTOR
L	R 196	QRD161J-682	CARBON RESISTOR

A REF. PARTS NO. PARTS NAME R 201 GRD161J-273 CARBON RESISTOR R 203 GRD161J-470 CARBON RESISTOR R 204 GRD161J-182 CARBON RESISTOR R 205 GRD161J-102 CARBON RESISTOR R 206 GRD161J-102 CARBON RESISTOR R 207 GRD161J-102 CARBON RESISTOR R 207 GRD161J-102 CARBON RESISTOR R 208 GRD161J-102 CARBON RESISTOR R 209 GRD161J-102 CARBON RESISTOR R 209 GRD161J-102 CARBON RESISTOR R 209 GRD161J-102 CARBON RESISTOR R 210 GRD161J-322 CARBON RESISTOR R 211 GRD161J-222 CARBON RESISTOR R 212 GRD161J-104 CARBON RESISTOR R 213 GRD161J-164 CARBON RESISTOR R 214 GRD161J-222 CARBON RESISTOR R 215 GRD161J-470 CARBON RESISTOR R 216 GRD161J-470 CARBON RESISTOR R 217 GRD161J-471 CARBON RESISTOR R 218 GRD161J-471 CARBON RESISTOR R 219 GRD161J-471 CARBON RESISTOR R 219 GRD161J-472 CARBON RESISTOR R 210 GRD161J-562 CARBON RESISTOR R 221 GRD161J-104 CARBON RESISTOR R 221 GRD161J-562 CARBON RESISTOR R 221 GRD161J-562 CARBON RESISTOR R 221 GRD161J-562 CARBON RESISTOR R 222 GRD161J-562 CARBON RESISTOR R 223 GRD161J-562 CARBON RESISTOR R 224 GRD161J-562 CARBON RESISTOR R 225 GRD161J-23 CARBON RESISTOR R 236 GRD161J-50 CARBON RESISTOR R 237 GRD161J-272 CARBON RESISTOR R 238 GRD161J-50 CARBON RESISTOR R 239 GRD161J-50 CARBON RESISTOR R 231 GRD161J-50 CARBON RESISTOR R 232 GRD161J-10 CARBON RESISTOR R 233 GRD161J-272 CARBON RESISTOR R 234 GRD161J-60 CARBON RESISTOR R 235 GRD161J-60 CARBON RESISTOR R 236 GRD161J-60 CARBON RESISTOR R 237 GRD161J-60 CARBON RESISTOR R 238 GRD161J-60 CARBON RESISTOR R 239 GRD161J-60 CARBON RESISTOR R 231 GRD161J-60 CARBON RESISTOR R 232 GRD161J-60 CARBON RESISTOR R 234 GRD161J-60 CARBON RESISTOR R 235 GRD161J-60 CARBON RESISTOR R 236 GRD161J-60 CARBON RESISTOR R 242 GRD161J-60 CARBON RESISTOR R 243 GRD161J-60 CARBON RESISTOR R 244 GRD161J-60 CARBON RESISTOR R 245 GRD161J-60 CARBON RESISTOR R 246 GRD161J-60 CARBON RESISTOR R 247 GRD161J-60 CARBON RESISTOR R 248 GRD161J-60 CARBON RESISTOR R 256 GRD161J-60 CARBON RESISTOR R 257 GRD161J-60 CARBON RESISTOR R 268 GRD161		<u> </u>		
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R 263 QRD161J-683 R 264 QRD161J-473 CARBON RESISTOR CARBON RES				
R 265 QRD161J-104 R 266 QRD161J-332 R 267 QRD161J-222 CARBON RESISTOR R 268 QRD161J-222 CARBON RESISTOR R 269 QRD161J-203 CARBON RESISTOR CARB		R 263	QRD161J-683	CARBON RESISTOR
R 266 QRD161J-332 CARBON RESISTOR R 267 QRD161J-222 CARBON RESISTOR R 268 QRD161J-223 CARBON RESISTOR R 271 QRD161J-473 CARBON RESISTOR CARBON RESISTOR R 271 QRD161J-473 CARBON RESISTOR CARB				
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R 269 QRD161J-203 CARBON RESISTOR R 271 QRD161J-473 CARBON RESISTOR R 272 QRD161J-222 CARBON RESISTOR R 273 QRD161J-103 CARBON RESISTOR CARBON RESISTOR R 286 QRD161J-103 CARBON RESISTOR CARB	Ц			
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R 293 QRD161J-223 CARBON RESISTOR CARBON RESIS				
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R 296 QRD161J-682 R 301 QRD161J-100 CARBON RESISTOR CARBON RES		R 294	QRD161J-105	CARBON RESISTOR
R 301 QRD161J-100 R 302 QRD161J-394 CARBON RESISTOR CARBON RES	\dashv			
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R 307 QRD161J-392 CARBON RESISTOR R 309 QRD161J-683 CARBON RESISTOR R 311 QRD161J-103 CARBON RESISTOR R 312 QRD161J-103 CARBON RESISTOR R 313 QRD161J-104 CARBON RESISTOR R 314 QRZ0077-4R7X FUSE RESISTOR R 315 QRD161J-102 CARBON RESISTOR R 316 QRD161J-103 CARBON RESISTOR R 317 QRD161J-103 CARBON RESISTOR R 318 QRD161J-103 CARBON RESISTOR R 319 QRD161J-103 CARBON RESISTOR R 319 QRD161J-395 CARBON RESISTOR R 320 QRD161J-104 CARBON RESISTOR		R 305	QRD161J-101	CARBON RESISTOR
R 309				
R 310 QRD161J-103 CARBON RESISTOR				
R 312 QRD161J-102 R 313 QRD161J-104 CARBON RESISTOR CARBON RESISTOR FUSE RESISTOR GARBON RESISTOR CARBON RESISTOR	Ц	R 310	QRD161J-103	CARBON RESISTOR
R 313 QRD161J-104 CARBON RESISTOR R 314 QRZ0077-4R7X FUSE RESISTOR R 315 QRD161J-102 CARBON RESISTOR R 317 QRD161J-103 CARBON RESISTOR R 318 QRD161J-103 CARBON RESISTOR R 319 QRD161J-103 CARBON RESISTOR R 319 QRD161J-395 CARBON RESISTOR R 320 QRD161J-104 CARBON RESISTOR				
R 314 QRZ0077-4R7X FUSE RESISTOR R 315 QRD161J-102 CARBON RESISTOR H 316 QRD161J-103 CARBON RESISTOR R 317 QRD161J-103 CARBON RESISTOR R 318 QRD161J-103 CARBON RESISTOR R 319 QRD161J-395 CARBON RESISTOR R 320 QRD161J-104 CARBON RESISTOR		R 313		CARBON RESISTOR
R 316 QRD161J-103 CARBON RESISTOR R 317 QRD161J-103 CARBON RESISTOR R 318 QRD161J-103 CARBON RESISTOR R 319 QRD161J-395 CARBON RESISTOR R 320 QRD161J-104 CARBON RESISTOR		R 314	QRZ0077-4R7X	FUSE RESISTOR
R 317 QRD161J-103 CARBON RESISTOR R 318 QRD161J-103 CARBON RESISTOR R 319 QRD161J-395 CARBON RESISTOR R 320 QRD161J-104 CARBON RESISTOR	Н			
R 319 QRD161J-395 CARBON RESISTOR R 320 QRD161J-104 CARBON RESISTOR		R 317	QRD161J-103	CARBON RESISTOR
R 320 QRD161J-104 CARBON RESISTOR				
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A REF.	PARTS NO.	PARTS NAME
R 326	QRU161J-184	CARBON RESISTOR
R 328	QRD161J-102	CARBON RESISTOR
R 329	QRD161J-273 QRD161J-242Y	CARBON RESISTOR
R 331	QRD161J-103	CARBON RESISTOR
R 332	QRD161J-222	CARBON RESISTOR
R 333	QRV141F-2001AY QRD161J-100	CMF RESISTOR CARBON RESISTOR
R 402	QRD161J-394	CARBON RESISTOR
R 403	QRD161J-394 QRD161J-101	CARBON RESISTOR
R 405	QRD161J-101	CARBON RESISTOR
R 406	QRD161J-154	CARBON RESISTOR
R 407	QRD161J-392 QRD161J-683	CARBON RESISTOR
R .410	QRD161J-103	CARBON RESISTOR
R 411	QRD161J-103 QRD161J-102	CARBON RESISTOR
R 413	QRD161J-104	CARBON RESISTOR
R 414	QRZ0077-4R7X	FUSE RESISTOR
R 415	QRD161J-102 QRD161J-103	CARBON RESISTOR CARBON RESISTOR
R 417	QRD161J-103	CARBON RESISTOR
R 418	QRD161J-103 QRD161J-395	CARBON RESISTOR CARBON RESISTOR
R 420	QRD161J-104	CARBON RESISTOR
R 426	QRD161J-184	CARBON RESISTOR
R 428	QRD161J-102 QRD161J-273	CARBON RESISTOR CARBON RESISTOR
R 430	QRD161J-242Y	CARBON RESISTOR
R 431 R 432	QRD161J-103	CARBON RESISTOR
R 432	QRD161J-222 QRV141F-2001AY	CARBON RESISTOR
R 701	QRD161J-223	CARBON RESISTOR
R 702	QRD161J-104 QRD161J-471	CARBON RESISTOR
R 704	QRD161J-103	CARBON RESISTOR
R 705	QRD161J-102	CARBON RESISTOR
R 707	QRD161J-272 QRD161J-102	CARBON RESISTOR
R 708	QRD161J-102	CARBON RESISTOR
R 709	QRD161J-471 QRD161J-223	CARBON RESISTOR
R 711	QRD161J-103	CARBON RESISTOR
R 712	QRD161J-223 QRD161J-473	CARBON RESISTOR
R 714	QRD161J-221	CARBON RESISTOR
R 715	QRD161J-153	CARBON RESISTOR
R 716	QRD161J-222 QRD161J-242Y	CARBON RESISTOR
R 719	QRD161J-122	CARBON RESISTOR
R 720	QRD161J-682 QRD161J-221	CARBON RESISTOR
R 722	QRD161J-682	CARBON RESISTOR
R 723	QRD161J-682	CARBON RESISTOR
R 725	QRD161J-682 QRD161J-103	CARBON RESISTOR
R 726	QRD161J-103	CARBON RESISTOR
R 727	QRD161J-103 QRD161J-103	CARBON RESISTOR
R 756	QRD161J-223	CARBON RESISTOR
R 757	QRD161J-223 QRD161J-223	CARBON RESISTOR
R 759	QRD161J-223	CARBON RESISTOR
R 801	QRD161J-103 QRD161J-222	CARBON RESISTOR
R 802	QRD161J-223	CARBON RESISTOR
R 806	QRD161J-102	CARBON RESISTOR
R 807	QRD161J-273 QRD161J-3R3	CARBON RESISTOR
R 809	QRD161J-3R3	CARBON RESISTOR
R 811 R 812	QRD161J-102	CARBON RESISTOR
R 813	QRD161J-273 QRD161J-222	CARBON RESISTOR CARBON RESISTOR
R 814	QRD161J-103	CARBON RESISTOR
R 816	QRD161J-3R3 QRD161J-3R3	CARBON RESISTOR
R 821	QRD161J-223	CARBON RESISTOR
R 822	QRD161J-103	CARBON RESISTOR
R 823	QRD161J-103 QRD161J-103	CARBON RESISTOR
R 825	QRD161J-101	CARBON RESISTOR
R 826 R 827	QRD161J-104 QRD161J-104	CARBON RESISTOR
R 831	QRD161J-4R7	CARBON RESISTOR
R .832	QRD161J-4R7	CARBON RESISTOR
R 836	QRD161J-472 QRD161J-472	CARBON RESISTOR CARBON RESISTOR
R 838	QRD161J-473	CARBON RESISTOR
R 839	QRD161J-473	CARBON RESISTOR

Α	REF.	PARTS NO.	PARTS NAME
	R 840		CARBON RESISTOR
	R 841	QRD161J-223 QRD161J-223	CARBON RESISTOR
	R 846	QRD161J-273	CARBON RESISTOR
	R 847	QRD161J-183	CARBON RESISTO
	R 848	QRD161J-224	CARBON RESISTOR
	R 851	QRD161J-103	CARBON RESISTOR
	R 852 R 853	QRD161J-222 QRD161J-103	CARBON RESISTOR CARBON RESISTOR
	R 854	QRD161J-103	CARBON RESISTOR
П	R 855	QRD161J-302	CARBON RESISTOR
	R 856	QRD161J-223	CARBON RESISTOR
	R 857	QRD161J-223	CARBON RESISTOR
	R 858	QRD161J-182 QRD161J-822	CARBON RESISTOR CARBON RESISTOR
٦	R 860	QRD161J-104	CARBON RESISTOR
	R 861	QRD161J-392	CARBON RESISTOR
	R 862	QRD161J-562	CARBON RESISTOR
	R 863 R 864	QRD161J-103 QRD161J-103	CARBON RESISTOR CARBON RESISTOR
-	R 865	QRD161J-223	CARBON RESISTOR
	R 866		CARBON RESISTOR
ı	R 868	QRD161J-103	CARBON RESISTOR
	R 869	QRD161J-153	CARBON RESISTOR
\dashv	R 873	QRD161J-3R3 QRD161J-3R3	CARBON RESISTOR
	R 875	QRD161J-3R3	CARBON RESISTOR
- [R 876	QRD161J-393	CARBON RESISTOR
-	R 877	QRZ0077-100X	F.RESISTOR
_	R 878	QRD161J-222	CARBON RESISTOR
-	R 879 R 880	QRD161J-333 QRD161J-153	CARBON RESISTOR
	R 880 R 881	QRD161J-155	CARBON RESISTOR
	R 882	QRD161J-272	CARBON RESISTOR
	R 883	QRD161J-752Y	CARBON RESISTOR
1	R 884	QRD161J-103	CARBON RESISTOR
	R 885	QRD161J-103 QRD161J-223	CARBON RESISTOR CARBON RESISTOR
Δ	R 887	QRD161J-183	CARBON RESISTOR
	R 888	QRD161J-103	CARBON RESISTOR
1	R 889	QRD161J-621Y	CARBON RESISTOR
	R 890	QRD161J-681	CARBON RESISTOR
	R 891 R 893	QRD161J-221 QRD161J-183	CARBON RESISTOR
Į	R 894	QRD161J-103	CARBON RESISTOR
1	R 897	QRD161J-473	CARBON RESISTOR
1	R 898	QRD161J-223	CARBON RESISTOR
Δ	R 899	QRD161J-223 QRZ0077-4R7X	CARBON RESISTOR
A	R 902	QRZ0077-4R7X	FUSE RESISTOR
1	R 903	QRD161J-273	CARBON RESISTOR
	R 904	QRD161J-103	CARBON RESISTOR
	R 905	QRD161J-242Y	CARBON RESISTOR
	R 906 R 907	QRD161J-472 QRD161J-472	CARBON RESISTOR
+	R 908	QRD161J-472	CARBON RESISTOR
-	R 909	QRD161J-102	CARBON RESISTOR
.	R 910	QRD161J-102	CARBON RESISTOR
4	R 912	QRD129J-221 QRZ0077-100X	CARBON RESISTOR F.RESISTOR
4	R 913	QRD161J-471	CARBON RESISTOR
1	R 915	QRD161J-471	CARBON RESISTOR
	R 916	QRD121J-102	CARBON RESISTOR
Δ	R 917	QRZ0077-100X	F.RESISTOR
4	R 918	QRD161J-102 QRD161J-332	CARBON RESISTOR
	R 920	QRD161J-103	CARBON RESISTOR
1	R 921	QRD161J-103	CARBON RESISTOR
	R 922	QRD161J-103	CARBON RESISTOR
4	R 923	QRD161J-103	CARBON RESISTOR
	RN701 RN702	QRB119J-223 QRB119J-223	R NETWORK
	\$ 803	QSTT102-V01	PUSH SWITCH
1	TP101	VMZ0015-003	POST PIN
	TP201	VMZ0015-003	POST PIN
	TP701	VMZ0015-003	POST PIN
	VR101 VR102	QVZ3523-101AZ QVZ3523-502AZ	V RESISTOR V.RESISTOR
1	VR103	QVZ3523-503AZ	V RESISTOR
	VR104	QVZ3523-104AZ	V.RESISTOR
7	VR105	QVZ3523-102AZ	V RESISTER
	VR106	QVZ3523-503AZ	V RESISTOR
-	VR201	QVZ3523-101AZ	V RESISTOR V.RESISTOR
-	VR202	QVZ3523-502AZ QVZ3523-503AZ	V RESISTOR
1	VR204	QVZ3523-104AZ	V.RESISTOR
1	VR205	QVZ3523-102AZ	V RESISTER
	VR206	QVZ3523-503AZ	V RESISTOR
- 4	VR803	QVD8A7A-015FA	V RESISTOR
- }	VR805	QVZ3523-502AZ	V.RESISTOR

Other Board

YMW1671 B (102) VMW1871 G 0

Other Board Parts List

BLOCK NO. 02

Δ	REF.	PARTS NO.	PARTS NAME
Ī	C 1	QFZ9010-103	M.CAPACITOR
	C 154		C CAPACITOR C CAPACITOR
	C 836		E CAPACITOR
_	C 837		E CAPACITOR
	CN705		CONNECTOR CONNECTOR
	D 710		LED
	D 711	SLR-34VC70F124	LED
-	D 712	1SS254 1SS254	SI DIODE
	0 811	188254	SI DIODE
	D 812	188254	SI DIODE
	D 813	1SS254 BG-902GK	SI DIODE FL TUBE
	F 701	XRA15218N	IC
	J 804	QMS6022-V01	JACK
	0 809	DTC124ESTP DTC124ESTP	TRANSISTOR TRANSISTOR
	Q 810 R 176	QRD161J-333	CARBON RESISTOR
1	R 177	QRD161J-153	CARBON RESISTOR
	R 178	QRD161J-124	CARBON RESISTOR
	R 179	QRD161J-752Y QRD161J-820	CARBON RESISTOR
	R 276	QRD161J-333	CARBON RESISTOR
	R 277	QRD161J-153 QRD161J-124	CARBON RESISTOR
	R 278	QRD161J-752Y	CARBON RESISTOR
	R 280	QRD161J-820	CARBON RESISTOR
1	R 728	QRD161J-102 QRD161J-102	CARBON RESISTOR
	R 730	QRD161J-102	CARBON RESISTOR
	R 731	QRD161J-223	CARBON RESISTOR
	R 732	QRD161J-223	CARBON RESISTOR
+	R 733	QRD161J-223 QRD161J-223	CARBON RESISTOR
	R 737	QRD161J-102	CARBON RESISTOR
	R 738 R 739	QRD161J-122 QRD161J-182	CARBON RESISTOR CARBON RESISTOR
	R 739	QRD161J-272	CARBON RESISTOR
1	R 741	QRD161J-472	CARBON RESISTOR
ļ	R 742	QRD161J-822	CARBON RESISTOR
	R 744	QRD161J-273 QRD161J-102	CARBON RESISTOR
1	R 745	QRD161J-122	CARBON RESISTOR
1	R 746 R 747	QRD161J-182 QRD161J-272	CARBON RESISTOR
	R 748	QRD161J-472	CARBON RESISTOR
1	R 749	QRD161J-822	CARBON RESISTOR
+	R 750	QRD161J-273 QRD161J-271	CARBON RESISTOR
	R 754	QRD161J-331	CARBON RESISTOE
	R 815	QRD161J-102	CARBON RESISTOR
	R 818 R 819	QRD161J-103 QRD161J-561	CARBON RESISTOR
1	R 820	QRD161J-223	CARBON RESISTOR
	R 871	QRD161J-182	CARBON RESISTOR
	R 872 RM701	QRD161J-123 SBX1610-02	CARBON RESISTOR
	S 1	QSP1106-004	PUSH SWITCH
T	S 2	QSS2325-119	SLIDE SWITCH
ł	S 701 S 711	Q\$\$7A23-V05 Q\$P4H11-V14Z	SLIDE SWITCH TACT SWITCH
	S 712	QSP4H11-V14Z	TACT SWITCH
1	S 713	QSP4H11-V14Z	TACT SWITCH
	S 714 S 715	QSP4H11-V14 Z QSP4H11-V14 Z	TACT SWITCH
	\$ 716	QSP4H11-V14 Z	TACT SWITCH
	S 717	QSP4H11-V14 Z	TACT SWITCH
+	S 718 S 719	QSP4H11-V14 Z QSP4H11-V14 Z	TACT SWITCH
	\$ 720	QSP4H11-V14 Z	TACT SWITCH
	\$ 721 \$ 722	QSP4H11-V14 Z QSP4H11-V14 Z	TACT SWITCH
	\$ 723	QSP4H11-V14 Z	TACT SWITCH
1	S 801	QSR2D23-V01	ROTARY SWITCH
	S 802 S 804	QSP4L11-V01 QSP4L11-V01	PUSH SWITCH
	VR801	QVCB17A-VO2 M	V RESISTOR
1	VR802	QVCA47G-V01 M	V RESISTOR
	VR804	QVCB16A-V01 M QVCA47B-V01 M	V RESISTOR V RESISTOR
1	l		1

Fig. 9-1

9 Exploded View of Enclosure Assembly MAIN BOARD Ass'y MECHANISM Ass'y

(No. 4333) 34

 Δ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

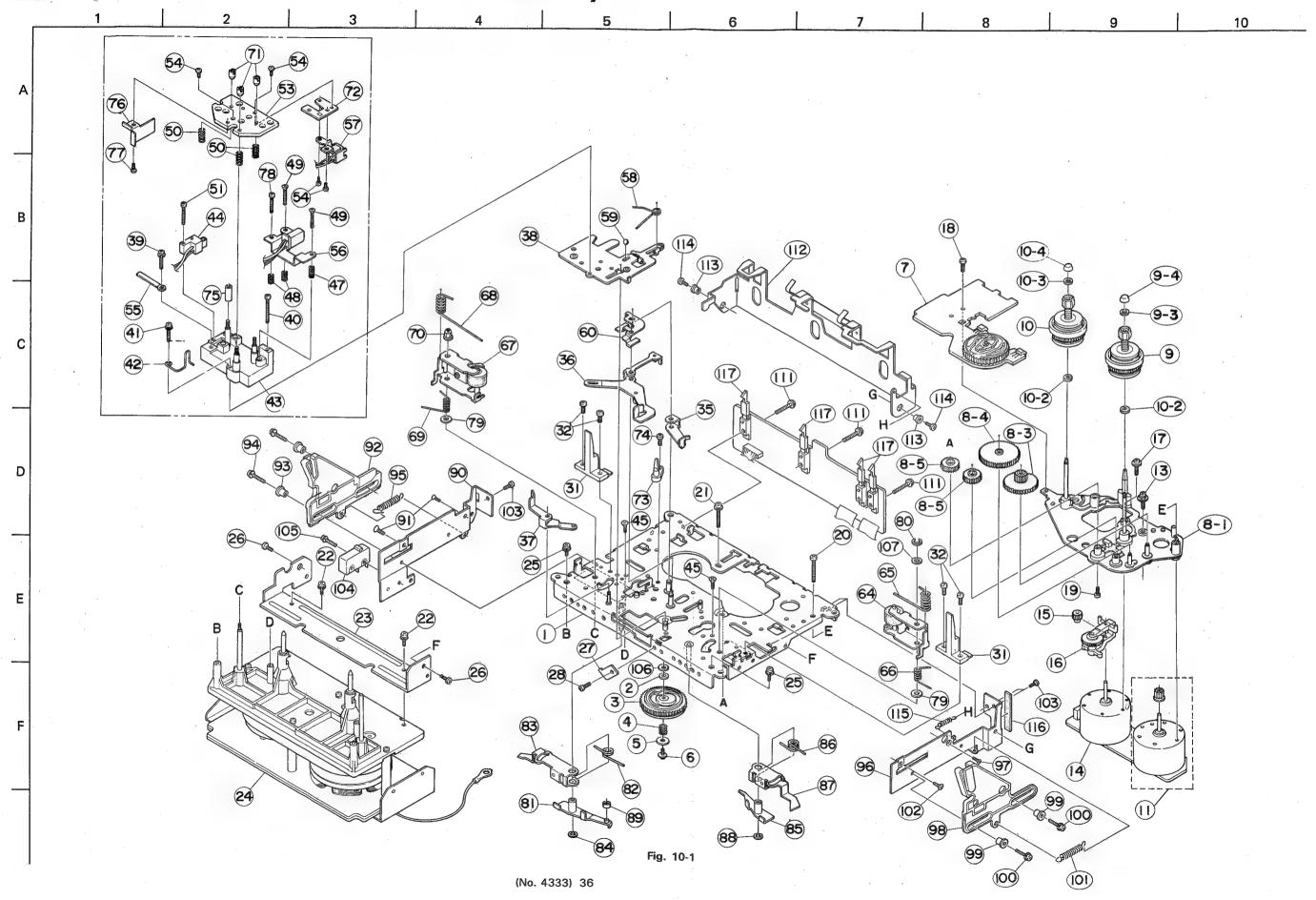
• Enclosure Component Parts List

BLOCK NO. M1MM

•	EHUIUSU	ire Component Parts	List	BLOCK NO. WITHIN	
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QΤΥ
H	55~61	ZCTDV1050K-CH	CASSETTE HOLDER ASS'Y	SERVICE PARTS	
11		ZCTDV1050K-CLTN	CASSETTE LID ASS'Y	SERVICE PARTS	
	02 00	2012 1 10001 0211	3/100E11E EID //00 1	021111021741110	
П					
П	1	SBSF3008M	SCREW	A/B/E/G(V-SELECT)	
П	2	VKS5011-001	VOLTAGE CONTACT	A/B/E/G(V-SELECT)	1
	3	VYSA1R4-084	SPACER	FOR HEAD WIRE	1 4
Δ Δ	4	QMF51A2-R63	FUSE A/E/G VER.	F901/902/904/905(
		QMF51E2-R63BS	FUSE B VERSION	F901/902/904/905(4
П		VYH7620-001	CAP	A/B/E/G VETSION	1
!		VKM3465-001	MECHA BRACKET		1
		SBST3006Z	SCREW	FOR MECHA.BOTTOM	2
		SBST3006Z	SCREW	FOR MECHA.BRACKET	2
		VKL1334-002	CHASSIS BASE		1
		VJD1154-002	ARK BASE BLATE		1
		VJD2369-002 SDSA4014M	ARK BASE PLATE SCREW	FOR ARK BASE	1 2
		E75538-005	FOOT	FOR MOLDER	1
		VYTP432-001	SPACER	FOR FOOT	1.
\vdash		VJF4003-013	FOOT		4
		SDSA3010Z	SCREW	FOR FOOT	8
		GBST3008Z	SCREW	FOR MAIN BOARD	1
		VJC2415-004	REAR PANEL	A/B/E/G VERSION	4 1 1 2 2 1 1 3 4 4 4 4 8 1 1 1 3 1 3 1 3 1 1 1 1 1 1 1 1 1 1 1
		VJC2415-005	REAR PANEL	C/J VERSION	1
-	20	SBST3006M	SCREW	FOR REAR	3
	21	SBSF3008M	SCREW	FOR DCS JACK	1
		SBSF3008M	SCREW	FOR PIN JACK	. 3
	1	VKL2602-001	SHEILD CASE	FOR MAIN BOARD	1
Ļ		GBST3008Z	SCREW	FOR SHILD CASE	4
Δ	2.5	VTP57A9-021B	POWER TRANS	T1 C/J VERSION	1
Δ		VTP57H9-011B VTP57H9-011BBS	POWER TRANS POWER TRANS	T1 A/E/G VERSION T1 B VERSION	1
1	24	GBST3006Z	SCREW	FOR POWER TRANS	- 7
A	i	QMP1900-200	POWER CORD	C/J VERSION	1
		QMP2560-200	POWER CORD	A VERSION	1
Δ		QMP3900-200	POWER CORD	E/G VERSION	1
Δ Δ		QMP9017-008BS	POWER CORD	B VERSION	1
Δ	28	QHS3771-108	CORD STOPPER		1
♠		QHS3771-108BS	CORD STOPPER	B VERSION ONLY	1
	30	VWH140-15C2C2-I		FOR FL BOARD	1
	1	SBST3006Z	SCREW	FOR LUG WIER	1
	32	VJC1965-006	FRONT PANEL	A/B/E/G VERSION	1
		VJC1965-007UL	FRONT PANEL	C/J VERSION	1
-		SBSF3008Z SBSF3008Z	SCREW	FOR FL BOARD	1 - 5
		SBSF3008Z	SCREW	FOR VOLUME BOARD FOR TIMER BOARD	ء ا
1	36		SCREW	FOR H.PHONE VOLUM	5 3 2 2 1
		VKZ4150-001	SPECIAL NUT	FOR P.PHONE	1
		SSSF3010Z	SCREW	FOR MECHANISM	2
		VJD5201-002	PAD	FOR FRONT PANEL	1
	40	SDSA4014M	SCREW	FOR FRONT PANEL	. 2
	41	LD-702YU	L.E.D	FOR BACK LIGHT	1
	t	VXP3415-005	MECHA BUTTON		1
_		VXP5018-002	MECHA BUTTON		1
		SBSF3008Z	SCREW	FOR MECHA BUTTON	4
1	1	VXP3416-002	PUSH BUTTON	EOD DI 1970-0	1
	i	VJD5339-001	LED LENS	FOR PLAY/REC	2
		VJD5029-001	RC FILTER		1
\vdash		VJD5343-002 VYH5601-002	INPUT ESCUTCHEO GEAR	FOR DAMPER	1
	1	VYH5602-002	DAMPER HOLDER	וטת טאויורכת	1
	51		SCREW	FOR DAMPER	1
	1	VKL7135-001	FRONT BKT(L)	, an aniii en	1
		VKL7136-001	FRONT BKT(R)	·	ı
_			L	L	<u> </u>

		•		· · · · · · · · · · · · · · · · · · ·	
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	54	SSSP3008Z	SCREW	FOR FRONT BRACKET	2
	55	VJT2267-003	CASSETTE HOLDER		1
	56	VKY4382-007	CASSETTE SPRING	FOR LEFT	1
	57	VKY4382-008	CASSETTE SPRING	FOR RIGHT	1
	58	VJT3314-004	STABILIZER	·	3
	59	VJD5341-001	PAD	FOR STABILIZER	3
	60	VKY4638-001	SPRING	FOR STABILIZER	. 1
ŀ	61	SDSF2605Z	SCREW	FOR SPRING	1
	62	VJT3312-002	CASSETTE LID		1
	63	VJD5341-002	PAD	FOR CASSETTE LID	2
	64	VJD5341-003	PAD	FOR CASSETTE LID	2
		VJD3870-001	CASSETTE LENS		1
	66	VJT3313-003	LID PLATE		1
-	67	VJC1966-006	FRONT PLATE		1
		E72968-001	JVC MARK		1
	1	SSSF3010Z	SCREW	FOR FRONT PLATE	1
-1	- 1	SSSF3010Z	SCREW	FOR FRONT PLATE	3
-	1	VXP5033-001	PUSH BUTTON	FOR POWER	1
	3	VKS3450-002	REMOTE BAR	FOR POWER SWITCH	1
\perp		E304525-009	VOLUME KNOB	FOR HEADPHONE VOL	1
	1	VXL3012-003	INPUT KNOB		1
-	1	VKW4901-002	KNOB SPRING	FOR INPUT KNOB	1
-		VKH5474-001	VOLUME SHAFT	FOR INPUT	1
١		VKS4992-004	VOLUME CONTACT	FOR INPUT	1
		E304525-009	VOLUME KNOB	FOR DOLBY	1
1	-	E406163-007	KNOB	CALIBRATION/BALAN	3
		VJD5372-002	VOL PLATE	CALIBRATION/BALAN	1
		VXP4814-002	PUSH BUTTON	HX PRO/MPX FILTER	2
-		VXP4814-002	PUSH BUTTON	CD DIRECTION	1
		VKS3505-001	REMOTE BAR	FOR CD DIRECTION	1 1
		VKM3466-001	POWER BRACKET		
-		LPSP3008Z	SCREW	FOR POWER SWITCH	1 2
		GBST3006Z	SCREW	FOR POWER BRACKET	1
	87	VKL7009-001	VOLUME BRACKET		-
7	88	SBST3006M	SCREW	FOR VOLUME BRACKE	2
-	89	VJC1980-002	TOP COVER		1
Ì	90	VYSH105-034	SPACER	FOR TOP COVER	4
	91	VYTR435-001	SPACER	BOTTOM SIDE OF TO	
		VKZ4614-001	SPECIAL SCREW	FOR TOP COVER	6
	93	SBST3006M	SCREW	FOR TOP COVER	2
	94	VJK3534-003	FINDER		1
	95	VYN2295-002PA	NAME PLATE	A VERSION	1
		VYN2295-002PA	NAME PLATE	B VERSION	1
		VYN2295-002PA	NAME PLATE	G VERSION	1
		VYN2295-004PA	NAME PLATE	C VERSION	1
		VYN2295-005PA	NAME PLATE	E VERSION	1
		VYN2295-006PA	NAME PLATE	J VERSION	1
	98	VJD3915-001	FITTING(L)		1
	99	VJD3916-001	FITTING(R)		1
	100	VJD5387-001	PLATE(L)		1
		VJD5388-001	PLATE(R)		1
	102	VYH7599-001	SNAP PIN	FOR FITTING	4
	103	VYSA1R2-008	SPACER	FOR VOLUME SHAFT	1
	104	T44362-001	CSA LABEL	C VERSION	
	105	VND4037-002	F MARK	G VERSION	1
	106	QZL1007-001	BEAB LABEL		1
í			1		
1			1	1	1
			:		

10 Exploded View of Mechanism Assembly



• Mechanism Component Parts List

•	Mechan	ism Component Part	s List	BLOCK NO. M2MM			
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY		
	1	VKL2449-00X	CHAS.BASE ASS'Y		1		
	2	VKZ4003-015	FELT	PINCH ROLLER CAM	1		
	3	VKS2202-002	P.ROLLER CAM		1		
	4	VKW3001-276	C.SPRING	PINCH ROLLER CAM	1		
	5	VKL5116-005	PLATE	PINCH ROLLER CAM	1		
	6	VKZ4340-002	SCREW	PINCH ROLLER CAM	1		
-	7	VKZ3136-00F	CAM SWITCH ASSY		1		
		VKL2303-003	DISK BASE	J24	1		
		VKR3001-001	GEAR(2)		1		
İ		VKR3001-002T	GEAR 2	4	1		
	8-5	VKR3000-001	GEAR(1)				
	9	VKR4598-00A	REEL DISK ASS'Y		2		
	9-3		RING		1		
ŀ			REEL STOPPER		1		
	9-4	·	REEL DISK ASS'Y		1		
-		VKR4598-00A					
		VKZ4003-010	FELT		2		
	10-3		RING		1		
	10-4		REEL STOPPER		1		
	11		DC MOTOR ASS'Y	FOR CAM	1		
	13		SCREW	FOR CAM MOTOR	1		
	14	MMN-6F4RA38	D.C.MOTOR	REEL MOTOR	1		
-	15		GEAR(1)	FOR REEL MOTOR	1		
		VKS4503-00b	F/R ARM ASS'Y		1		
	17	SWSP2608Z	SCREW	FOR REEL MOTOR	1		
	18	SDST2604Z	SCREW	FOR DISK BASE UNI	1		
	19	LPSP2608Z	SCREW	FOR DISK BASE UNI	1		
1	20	SPSP2615Z	SCREW	FOR CAM MOTOR	1		
-	21	LPSP2614Z	SCREW	FOR REEL MOTOR	1		
		LPSP2606Z	SCREW	FOR MOTOR BRACKET	2		
		VKL6562-002	MOTOR BRACKET		1		
_	24	SS11BB	DD MOTOR ASS'Y		1		
	25		SCREW	FOR DD MOTOR	2		
	26	SDST2605Z	SCREW	FOR MOTOR BRACKET			
	27		BRACKET		1		
	28		SCREW	FOR BRACKET	1		
-		VKS4901-002	CASSETTE GUIDE	J24	2		
		SDST2605Z	SCREW	FOR CASSETTE GUID	4		
		VKL5316-00G	H.BASE ARM ASSY	TOR CASSLITE GOID	1		
-	1	VKL3879-00B	P.R.LEVER(1)		1		
		VKL6190-00C	P.R.LEVER(2)		1		
	38		HEAD BASE	500 11705 1101 050			
	39		SCREW	FOR WIRE HOLDER	1		
	40		SCREW	FOR HEAD BASE	1		
	41		SCREW	HOR WIRE HOLDER	1		
		VKZ4437-001	WIRE HOLDER	·	1		
	43		H.BASE ASS'Y		1		
	44		ERASE HEAD	:	1		
	45	SSSP2608Z	SCREW	FOR DD MOTOR	2		
	47		SPRING	FOR REC HEAD	1		
		VKW3001-099	SPRING	FOR REC HEAD	2 2 3		
		VKZ4463-00B	SPECIAL SCREW	FOR REC HEAD	2		
		VKW3001-223	SPRING	FOR PB HEAD			
	51	LPSP2012N	SCREW	FOR E HEAD	1		
	53	VKL6192-005	P.B. HEAD BASE		1		
	54	VKZ4194-001	S.SCREW	FOR PB HEAD	4		
	55	VKZ4001-013	WIRE HOLDER	FOR HEAD WIER	1		

Т		NADO NO	PARTS NAME	REMARKS	2 7' Y
7	REF.	PARTS NO.		REMARKS	». I
1		VGH0423-607	REC HEAD ASS'Y		
		VGH0424-629	P.B. HEAD ASS'Y	HOR HEAD BASE	
		VKW4467-005	TORSION SPRING	HUK HEAD BASE	
l		T41615-004	STEEL BALL SPRING PLATE		
ļ		VKY4559-002	P.ROLLER ASS'Y	RIGHT	
	64	VKP4210-00A	TORSION SPRING	FOR P_ROLLER	
		VKW3006-056	TORSION SPRING	FOR RETURN	
		VKW3006-057 VKP4129-00K	P.ROLLER ASS'Y	LEFT	
		VKW4735-003	TORSION SPRING	FOR PINCH ROLLER	
L		VKW4733-003 VKW3006-060	TORSION SPRING	FOR PINCH ROLLER	
		VKS4513-001	ADJUST SCREW	FOR PINCH ROLLER	
		VKH5137-001	ADJUST SCREW	FOR PB HEAD	
		VKL6422-001	HEAD BASE	FOR PB HEAD	
l		VKS4512-003	GUID POST		
-		SDST2605Z	SCREW	FOR GUIDE POST	
		QXTS400-010	SHURINK TUBE		
		VKL6581-001	SHIELD PLATE	FOR PB HEAD	
		SPSK2025M	MINI SCREW	FOR SHIELD PLATE	
	- 1	VKZ4464-00B	SPECIAL SCREW	FOR REC HEAD	
1		WNS3000N	WASHER	FOR PINCH ROLLER	
1	17	WNS3000N	WASHER	FOR PINCH ROLLER	
	80	REE2500	E.RING	FOR PINCH ROLLER	
		VKL6830-00E	LEVER L1 ASS,Y		
		VKW4872-001	T.SPRING	FOR LEVER L1	
ł		VKL6832-001	LEVER L2		
l		WDL266025-4	SLIT WASHER	FOR LEVER L1	
		VKL6843-00C	LEVER R1 ASS, Y		
1		VKW4873-001	T.SPRING		
l		VKL6845-001	LEVER R2		
t		WDL266025-4	SLIT WASHER	FOR LEVER R1	
l		VKH3000-147	COLLAR	FOR LEVER L1	
l		VKM3336-003	SIDE BRACKET L		
		VKZ4128-002	S.SCREW	FOR SIDE BRACKET	
	92	VKS2211-001	SLIDE LEVER L		
t	93	VKH3001-085	F.COLLAR	FOR SLIDE LEVER	
	94	LPSP2008Z	SCREW	FOR SLIDE LEVER	
İ	95	VKW3002-272	SPRING	FOR SLIDE LEVER	
		VKM3337-003	SIDE BRACKET R		
+	0.7	VKZ4128-002	S.SCREW		-
1		VKS2212-002	SLIDE LEVER R		
		VKH3001-085	F.COLLAR	FOR SLIDE LEVER	
1		LPSP2008Z	SCREW	FOR SLIDE LEVER	
		VKW3002-268	SPRING	FOR SLIDE LEVER	
Į		SSST2605Z	SCREW	FOR SIDE BRACKET	
1		SDST2605Z	SCREW	FOR SIDE BRACKET	
1		VSH1162-002	SWITCH	FOR DOOR OPEN DET	
		VKZ4231-006	SCREW	FOR SWITCH	
	105		WASHER	PINCH ROLLER CAM	1
-		WFM316025	S.WASHER	FOR PINCH ROLLER	1
		VKZ4345-004	SPECIAL SCREW	FOR LEAF SWITCH P	
		VKM3359-00D	SW ARM ASS'Y		
		VKH5380-001	COLLAR	FOR SWITCH ARM	
		SDSP2605Z	SCREW	FOR SWITCH ARM	
_		VKW3002-269	T_SPRING	FOR SWITCH ARM	+-
		VYSS101-032	SPACER	FOR MECHA. TOP SID	
		1 1 1 2 2 T O T _ O 2 5		•	
		VCH11/0-003	I FAF SWITCH	1 8702/8703/8704/8/	1
	117	VSH1140-003 VKL2303-003	LEAF SWITCH DISK BASE	\$702/\$703/\$704/\$7 J24	

11 Packing

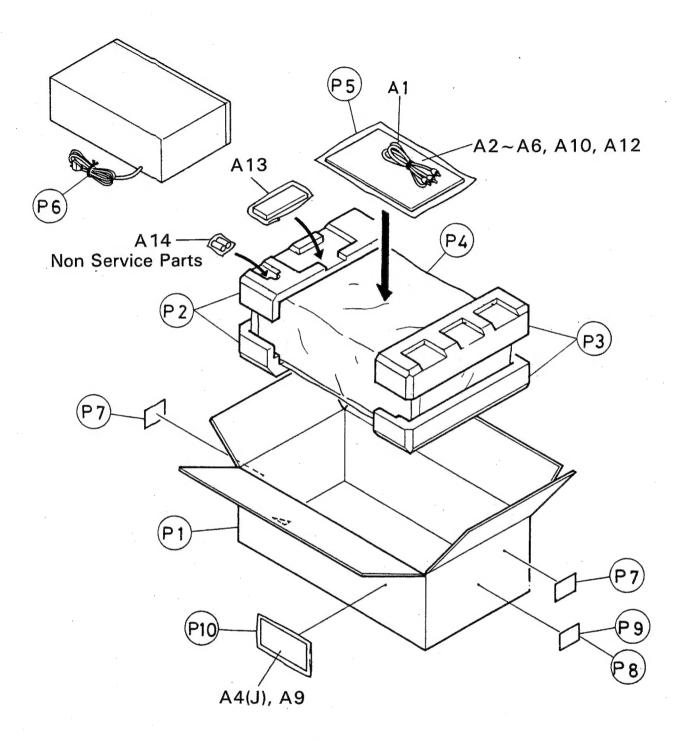


Fig. 11-1

• .	Pacl	king	Parts List		BLOCK NO. M3MM	
Δ	RE	er.	PARTS NO.	PARTS NAME	REMARKS	QTY
П	Α	1	VMP0039-00D	PIN CORD		1
	Α	2	VNN2295-471	INST BOOK	E VERSION	1
			VNN2295-661	INST, BOOK	•	1
	Α	3	TCN-3379	TAPE PAMPHLET	B/E/G VERSION	1
			TCP-3428	TAPE PAMPHLET	Á VERSION	1
П			TCU-3492	TAPE PAMPHLET	C/J VERSION	1
	Α	4	BT-20025K	WARRANTY CARD	C VERSION	1
			BT-20047F	WARRANTY CARD	J VERSION	1
			BT-20060	WARRANTY CARD	B VERSION	1
			BT-20066A	WARRANTY CARD	B VERSION	1
П			BT-20117	WARRANTY CARD	G VERSION FOR JED	
			BT-20122	WARRANTY CARD	A VERSION	1
			BT-20122-1	WARRANTY CARD	A VERSION	1
	Α	5	EWP805-001E	REMOTE WIRE	1	1
	Α	6	BT-20044G	SAFETY GUIDE	J VERSION	1
П	Α	9	BT-20108A	SERVICE NETWERK	J VERSION	1
	Α	10	BT-20071A	JVC CENTER LIST	C VERSION	1
1 1	Α	12	E43486-340A	SAFETY I.SHEET	B VERSION	1
	Α	13	RRT4001-9703R	REMOCON ASS'Y		1
	Α	14	UM4NV-2P	BATTERY	FOR REMOCON (NON S	
П	Р	1	VPC2295-002	CARTON		1
	Р	2	VPH2405-001	CUSHION(L)	10	1
	Р	3	VPH2406-001	CUSHION(R)		1
	P	4	E300196-031B	ENVELOPE	FOR UNIT	1
	P	5	VPE3005-007	POLY BAG	FOR INSTRUCTION	1
	P	6	Q04141H	WIRE CLAMP	FOR POWER CORD	1
	Р	7	VND3044-001	SIRIAL TICKET	A VERSION	1
			VND3044-002	SERIAL TICKET	J VERSION	1 2 1
			VND3044-003	SERIAL TICKET	E VERSION	1
			VND3044-004	SIRIAL TICKET	B VERSION	1 1 2 1
			VND3044-005	SIRIAL TICKET	G VERSION	1
			VND3044-006	SERIAL TICKET	C VERSION	2
	P	8		EAN CODE LABEL	A/B/E/G VERSION	
	Р	9	VND3065-033	UPC CODE LABEL	C/J VERSION	1
	Р	10	E66416-003	ENVELOPE	J VERSION-WARRANT	1



VICTOR COMPANY OF JAPAN, LIMITED PERSONAL AUDIO PRODUCTS DIVISION 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan